RCMA

NEWSLETTER

FEBRUARY 1990

Photo by Nancy Robertson (CA-SB-077)

FIRST NATIONAL AND INTERNATIONAL ORGANIZATION OF MONITOR RADIO LISTENERS

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RCMA NEWSLETTER

GENERAL MANAGER
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Carol Ruth (CA-OR-100)
P. O. Box 542
Silverado, CA 92676

GENERAL EDITOR
William Mauldin (FL-137)
961 Azalea Street
Boca Raton, FL 33846

FOR YOUR INFORMATION:

1. Input to the RCMA Newsletter should be mailed to the proper editors, whose addresses are included in the individual column heads. If no particular column seems appropriate, send to RCMA General Manager, P. O. Box 542, Silverado, CA 92676.

2. To forward a letter to a specific RCMA member whose address you do not know, put your message to that person in a stamped envelope with your return address; mail to RCMA General Manager, P. O. Box 542, Silverado, CA 92676.

3. PLEASE INCLUDE YOUR MEMBERSHIP NUMBER WITH ALL CORRESPONDENCE to newsletter editors or club headquarters.

4. If you require a reply when writing to newsletter editors, please include a self-addressed, stamped envelope.

5. Please don't combine in one letter several items that should go to different addresses. Be sure to write on one side only of your paper.

6. If you want to type or word process information you are submitting for publication, you MUST do the following:
   a. make your written line length 7 inches
   b. single space your copy
   c. make your frequency lists single column
   d. do not skip more than one line between topics or paragraphs
   e. do not use an *italic typeface*

7. Your RCMA membership number and expiration date appear on your mailing label.

8. You may join or renew your membership for only ONE year at a time.

9. RCMA accepts paid advertising. For information on rates and mechanical requirements, contact Carol Ruth, RCMA Advertising Manager, P. O. Box 542, Silverado, CA 92676.

The RCMA Board of Directors supports the policy of not printing certain federal law enforcement frequencies, e.g., Secret Service, FBI, Customs, DEA. Agreement with this policy has been reinforced by a membership survey.

RCMA Newsletter

Issue 169 February 1990

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CONTACTING RCMA?

For membership applications or renewals, address changes, inquiries about delivery or renewal problems, write to:

RCMA General Manager, P.O. Box 542, Silverado, CA 92676

Have a comment about RCMA club policy or newsletter content? Write to:

William Mauldin, RCMA General Editor, 961 Azalea Street, Boca Raton, FL 33486

Want a letter published in *Your Thoughts* column? Write to:

RCMA General Manager, P.O. Box 542, Silverado, CA 92676

Correspondence sent to RCMA's Anaheim P.O. Box will still be answered, but there will be a 4–6 week delay.

February cover photo: Watch that speedometer! A Southern California motor officer takes pictures.

Photo by Nancy Robertson (CA–SB–077)

The RCMA Newsletter is published by members of the RADIO COMMUNICATIONS MONITORING ASSOCIATION, Inc., P.O. Box 4563, Anaheim, CA 92803. Membership dues are $18.50 for U.S. residents. For persons in other countries, the following rates apply: Canada and Mexico—$22.50; Europe—$22.50; South Pacific and Asia—$22.50. These dues are payable in U.S. funds and are subject to change. Information contained herein is obtained primarily from members and does not necessarily present the position or reflect the opinion of RCMA as a whole. RCMA, Inc. does not necessarily recommend or endorse products or services advertised herein. The publication is copyrighted©. Reproduction of any material in this newsletter is prohibited without prior written consent.

RCMA STATE ASSOCIATE EDITORS

RCMA State Associate Editors are your in-state club representatives. The job of the Associate Editor is to collect information within his state, then verify and combine the material with other contributions from your area. Once a month, the Associate Editor forwards ALL information received to the designated column Staff Editor. The Staff Editor writes the monthly column you read in the NEWSLETTER.

If your state has an Associate Editor, send your contributions and questions to him. He is best equipped to deal with matters within his area, and can probably answer questions of a local nature. Write to him first and BE SURE TO INCLUDE AN SASE.

If your state is not listed (except for California), the position is open for assignment. If you would like to be considered for the volunteer job, send a stamped, self-addressed envelope for an application. Your active, monthly participation is required and expected if you are selected as state Associate Editor.

There is a great deal of satisfaction in being the RCMA Associate Editor representative for your state, and **Associate Editors get a 50% discount on yearly dues.** We are looking for workers, not information collectors. If you are serious about RCMA, consider being an Associate Editor! Typewriters and computer printers are NOT required for Associate Editor assignments.

NOW—AE's receive a 50% reduction in membership and 1st class mailing of the newsletter

Applications are available by sending a stamped, self-addressed envelope to RCMA Managing Editor, 961 Azalea Street, Boca Raton, FL 33486

Associate Editor Listing as of December 19, 1989

ALABAMA: .....David Beck, 422 Laurie Dr., Birmingham, AL 35214
ALASKA: .....Position OPEN
ARIZONA:.....Bob Schmulian, 4415 N. Rockcliff Rd, Tucson, AZ 85715
ARKANSAS: .....Lee Murphy, Rt 3, Box 402–A, Crossett, AR 71635
NORTHERN CALIF:.....Gary Webbenhurst, 8430 La Riviera Dr, Sacramento, CA 95826
COLORADO:.....Position OPEN
CONNECTICUT:.....Stephen Repetto, 42 Glenstone Dr, Vernon, CT 06066–4202
DELAWARE: .....Position OPEN
DIST OF COLUMBIA:...Position OPEN
FLORIDA: .....Randy Kerr, 310–1 SW 62nd Blvd, Gainesville, FL 32607
GEORGIA:.....Steve Giovanis, 4314 14th St, East Beach, St Simons Island, GA 31522
HAWAII: .....Position OPEN
IDAHO:.....George Wight, P. O. Box 732, Groveland, CA 95321
ILLINOIS:.....Bob Fairburn, P. O. Box 463, Gridley, IL 61744
INDIANA:.....David A. Nugent, 2542 Birk Dr, Jasper, IN 47546
IOWA:.....Position OPEN
KANSAS:.....Steve Jester, 1115 North Park, Wellington, KS 67152
KENTUCKY:.....William G. Gourley, P. O. Box 1603, Paducah, KY 42002–1603
LOUISANA: .....Jeff Waldrop, 1018 Bee Tree St, Westlake, LA 70669
MAINE: .....Position OPEN
MARYLAND:.....William Staubs, 756 221st St, Pasadena, MD 21122
MASSACHUSETTS:.....Mariner S. Ayer, Jr., 299 Thompson St, Middleboro, MA 02346
MICHIGAN: .....Richard McLaughlin, 3921 Marland Dr, Lansing, MI 48910
MINNESOTA: .....Jerry Ensign, P. O. Box 28148, Crystal, MN55428–0184
MISSISSIPPI: .....Position OPEN
MISSOURI:.....Michael Redman, P O Box 49, High Ridge, MO 63049
MONTANA: .....Position OPEN
NEBRASKA: .....Position OPEN
NEVADA:.....Fred McGowan, P O Box 879, Las Vegas, NV 89101
NEW HAMPSHIRE:.....Position OPEN
NEW JERSEY: .....Richard D. Prail, P O Box 1274, West Caldwell, NJ 07007
NEW MEXICO:.....Position OPEN
NEW YORK: .....Joseph Nooney, P. O. Box 30, Valatle, NY 12184
NEW YORK CITY .....Phil Caruma, 7225 73rd St., Glendale Queens, New York, NY 11385
NORTH CAROLINA:.....Randy Whaley, 22F Sailsway Dr, Greensboro, NC 27406
NORTH DAKOTA: .....Position OPEN
OHIO: .....Oscar J. Mann, Jr., 6800 Mayfield Rd, Mayfield Heights, OH 44124
OKLAHOMA: .....Jay D. Kruckenberg, Rt. 2, Box 31, Mooreland, OK 73852
OREGON:.....Al Musgrove III, 2402 E. McAndrews Rd, Medford, OR 97504
PENNSYLVANIA:.....Keith E. Maydak, 6393 Penn Ave, Pittsburgh, PA 15206
RHODE ISLAND: .....Position OPEN
SOUTH CAROLINA:.....Billy Estes, 117 Willard Bouknight Rd, Irmo, SC 29063
SOUTH DAKOTA:.....Position OPEN
TENNESSEE: .....Curtis Harbin, P O Box 5576 EKS, Johnson City, TN 37603
TEXAS:.....Robert Barker, 1801 Wells Branch Pkwy #1630, Austin, TX 78728
UTAH: .....John D. Parken, 4672 South Deer Creek Rd, Salt Lake City, UT 84124
VERMONT:.....Dan J. Gilman, 123 Walnut St., Rutland, VT 05701
VIRGINIA: .....Landon Davis, 2807 Rifle Ridge Rd, Oakton, VA 22124
WASHINGTON:.....Kenneth E. MacLeod, P. O. Box 2495, Friday Harbor, WA 98250
WEST VIRGINIA:.....Position OPEN
WISCONSIN: .....John P. Johnson, 1905 E Lexington Blvd, Eau Claire, WI 54701
WYOMING: .....Christopher D. Smith, P. O. Box 1229, Ogden Utah 84402

Applications are available by sending a stamped, self–addressed envelope to:
RCMA Managing Editor, 961 Azalea Street, Boca Raton, FL 33486

CALENDAR

Send notices of upcoming events for the Calendar section to:
RCMA General Manager, P. O. Box 542, Silverado, CA 92676

Deadline: 1st of the month two months prior to cover date.

Dates for the "January 1990" Newsletter, which we hope you received in December.

Paste up completed	17 Nov	Labels to Mailer	5 Dec
Delivery to printer	17 Nov	Newsletter to Mailer	9 Dec

West Los Angeles Chapter

Contact: Rick DiFiore (CA-LA-544): (231) 397-6581 or
Hugh Stegman (CA-LA-472): (213) 398-5353
Talk in: 146.925 MHz (-600 PL-2A) Tues 1930 hrs net.

Meetings on the second Wednesday of each month at 7:30 PM, in the front patio of Chris's Pizza, 10105 Venice Blvd., Los Angeles. (213) 838-2151. Nearest major street is Motor Avenue. This is east of the 405 freeway and south of the 10 (get off at Robertson and head west on Venice). Use or monitor 146.925 for talk in.

Austin Area Radio Listeners Meeting

Contact: David Litsinger (TX-032) 441-0650
P.O. Box 17142, Austin, TX 78760

Contact David for time and locations of meetings.

R.C.M.A. Chicago

Contact: Ron Kosinski (IL-310)
P.O. Box 528213, Chicago, IL 60652

Saturday	January	20, 1990	1:00 P.M.
Saturday	March	3, 1990	1:00 P.M.
Saturday	April	21, 1990	1:00 P.M.
Saturday	June	9, 1990	1:00 P.M.
Saturday	August	11, 1990	1:00 P.M.
Sunday	August	26, 1990	Annual Picnic & Field day
Saturday	October	13, 1990	1:00 P.M.
Saturday	December	1, 1990	1:00 P.M.

The Chicago Chapter requests that interested R.C.M.A. members send a year's supply of 9 SASE's plus a $2.00 contribution to the "contact person" listed above. The contribution funds will be used to cover the printing of the newsletter that will be sent to all Chicago Chapter members just before each meeting.

Visitors are welcome but please confirm the date in advance.

Northeast Scanners

Contact: Les Mattson (NJ 187)
212 West Broad Street, Paulsboro, NJ 08066

The Northeast Scanning News, a monthly publication covering the states of New Jersey, New York, Pennsylvania, Delaware, Maryland, DC, Maine, Connecticut, Massachusetts, New Hampshire, Rhode Island, and Vermont. Sample copies: $2.00. Makes checks out to Les Mattson.

R.C.M.A. for D.C., MD, VA, & DE

Contact: Capitol Hill Monitors

Alan Henney (MD 069)
6912 Prince Georges Ave.
Takoma Park, MD 20912

Arnold Miller (MD 054)
407 Foxview Court,
Reisterston, MD 21136

Local Chapter Newsletter is supplementary to the RCMA and the NESN newsletters. The CHM newsletter appears as a NESN column (See Northeast Scanners section for subscription information). No meetings presently scheduled. Please send information & requests for Baltimore Region to Arnold, and all other areas (including Washington) to Alan. Visitor, traveler & frequency requests are welcome. (Please send an SASE).

R.C.M.A. Minneapolis-St. Paul Area

Contact: Chuck Steier (MN-008): (612) 927-9253
4820 Hwy 7, Minneapolis, MN 55416

An SASE on file ensures notification of chapter activities (tours, gatherings, etc). Non members are welcome to attend.

Philadelphia Notification Network

Contact: Chuck Guysi (PA-005)
P.O. Box 144-PR, Rosemont, NJ 08556-0144.

PNN is a scanner notification group composed of RCMA members in the Philadelphia area, including Pennsylvania, south and central New Jersey and northern Delaware. PNN operates a wide-area UHF repeater system so that participants can notify each other of urgent scanner activity. PNN also holds occasional meetings during the year. Send a SASE for information.

All Ohio Scanner Club A Full Member of ANARC

Contact: David B. Marshall (OH-146), Managing Editor
50 Villa Road, Springfield, OH 45503-1036

The All Ohio Scanner Club covers all of Ohio, plus Illinois, Indiana, Kentucky, Michigan, Pennsylvania, West Virginia, and Ontario, Canada, plus other areas as well. Members from these and other areas are welcome. The AOSC newsletter features execellent federal government and below 30MHz utilities columns.
Sample Newsletter: $2.00. Membership information for an SASE

Southern California Area DxerS

Contact: Don. R. Schmidt, Director
3809 Rose Ave, Long Beach, CA 90807-4334

Meetings are held at Long Beach Mercury Savings, 4140 Long Beach Blvd.

January 27, 1990	April 28, 1990
February 24, 1990	June 23, 1990
March 24, 1990	July 28, 1990

Toledo Area Radio Enthusiasts

Contact: Ernie Dellinger (OH-233)
6629 Sue Lane, Maumee, OH 43537 (419) 865-4284

The TARE is a group of radio buffs (SWL & scanners) that meet on the third Thursday of each month at 7:00 PM at Frisch's Big Boy Restaurant, 6609 Airport Hwy (St Rt 2 just west of I-475) in Holland, Ohio.

R.C.M.A. Wisconsin

Contact: Scott W. Miller (WI-039)
122 Greenbriar Drive, Sun Prairie, WI 53590

Regional Communications Network

Contact: Jay Delgado (NJ-249)
Box 83, Carlstadt, NJ 07072-0083

RCN is "A Two-Way Radio Communications Monitors' Association" interested in monitoring communications from public safety to satellites. For information send an SASE #10 (business size) to contact person.

NEED RCMA BACK ISSUES?

1988, 1989 and 1990 issues to date are available until Dec. 31, 1990, at which time 1988 issues will no longer be stored. The following postage rates apply to *all* orders, and are in addition to the cost of the newsletters.
THE COST OF EACH ISSUE IS $1.00

When ordering, calculate $1 per issue. Then refer to the chart below for the correct amount of postage. (Rates based on 1st class USPS.) Address order to RCMA Back Issues, P.O. Box 542, Silverado, CA 92676.

# OF ISSUES	AMOUNT OF POSTAGE
1	$ .85
2	$1.65
3	$2.25
4 thru 8	$2.40
9 thru 12*	add $ .48 for each issue

Issues Not Available:
December '87
December '88
January '89
June '89

***Orders shipped at maximum of two years (24 issues) per package.**

PLEASE NOTE: If for any reason the amount of your check or money order is greater than that needed to fill your order, the difference will be applied to your current membership. This applies to any amount under $10: if more than $10, you will receive a refund check.

your thoughts

Carol Ruth, RCMA General Manager
P.O. Box 542, Silverado, CA 92676

Your Thoughts is the RCMA members' forum on current topics of interest to the scanner hobbyist. If you have an opinion you would like to express, RCMA encourages you to send it in. Your letter must include your name, address, and RCMA membership number. Due to space limitations, RCMA reserves the right to condense submitted material.

To the Editor:

I have just received my second issue of RCMA and I can't describe how much I enjoy this publication!! I have been a communications monitor for many years and I can't imagine not being aware of this newsletter before now.

A great deal of credit goes to Washington State Assoc. Editor Kenneth MacLeod (WA-096). He has been very instrumental in expanding my monitoring and also for recommending RCMA. We correspond at least once a week and I always send him new frequencies. A wonderful gentleman, truly devoted to the hobby of monitor radio listening.

In closing, please let me thank all who make RCMA possible each month. It's a joy to read a publication so well produced. Don't change a thing!!.

Yours Truly,

Michael Benedetti
(WA-106)

From The CAPTAIN'S DESK

William Mauldin, RCMA General Editor
961 Azalea Street, Boca Raton, FL 33486

EDITOR CHANGE FOR PUBLIC SAFETY GREAT LAKES

Effective with this issue, Mike Redman has been assigned the position of Staff Editor, Public Safety Great Lakes. Mike has been with RCMA since the early days, and has a proven record ot dependable service within the organization. His most recent assignment has been Associate Editor, State of Missouri. In addition to his new writing assignment, Mike will continue as the AE for Missouri. We welcome the return of Mike's writing talents!

Michael Scheel stated in his resignation letter that he was unable to continue with the column, however, he does wish to remain an active RCMA Associate Editor and has been assigned the position of Associate Editor, State of Iowa.

I would like to welcome Mike Redman in his return to an active staff position. I would also like to say a hardy "thank you for a job well done" to Mike Scheel! Michael Scheel has been a dependable, devoted staff editor. His coverage of the Great Lakes has been excellent. We will miss his monthly writing, however, I am most pleased that he will continue with the staff as Associate Editor for Iowa.

PUEBLO WEST ZONING BOARD ZONKS HAM ANTENNAS

The Pueblo West, Colorado Zoning Board may have placed itself in a no win position in a fight with a ham radio operator an his antennas. The fight will be long and expensive, but I am betting the ham will win.

The Zoning Board reportly is fighting for the removal of ALL amateur antennas from the community while making allowances for CB and TVRO antennas. All twelve hams residing in the community have received citations and have been notified that they have ten days to remove ALL amateur equipment from their property. The unprecedented move is being followed closely by the news media as well as many others.

The fight started when a ham and his neighbor had a dispute over a dog fight. The neighbor then started complaining about telephone interference, a subject never before mentioned. Next, the neighbor complained to the Zoning Board about the antenna. As the dispute escalated, the Zoning Board declared the ham a "public nuisance", and has ordered him and all other amateurs in the community not only to remove any antennas they may have, and to remove all amateur equipment from their residences. Keep in mind that the Board has made allowances for CB antennas, TV antennas and satellite dishes.

This dispute will be an interesting one to follow. If carried to the extreme, and if the Board were successful in eliminating all ham equipment from the community, even the equipment which is in

storage, the case could set an interesting precedent. A community could theocratically outlaw scanners, even those not being listened to. We will make every effort to keep you posted on this case. (W5YI Report)

THE STOLEN VEHICLE RECOVERY NETWORK

Selected patrol cars are sporting direction finding (DF) antennas these days. You probably have a police car in your community that has been recently equipped with the five VHF antenna array on the roof along with the normal police equipment. This system, recently allocated nationwide operation on 173.075 MHz, is receiving full funding from many agencies and insurance groups.

The system works quite well, and has already resulted in many stolen vehicle recoveries according to the National Auto Theft Bureau. Although there are many commercially produced systems available, the Lo-Jack System seems to be the most popular. This commercially produced and marketed system uses a Motorola transceiver which is installed in the customers car, a tracking receiver which is used by the police car, and a nationwide computerized radio network of base transmitters. When a customer reports his car has been stolen, the base station transmitters send out coded signals which activate the transmitter in the stolen car. The car transmitter is coded and will respond only to the signal which activates it's coded transmitter alarm. Once activated, the transmitter sends out a signal which is received by the tracking device in the police vehicle, alerting the officer that he is close to a stolen vehicle. The insurance industry is footing the bill for a major portion of the system expense, knowing it costs less than paying of a stolen vehicle. Customers who install the stolen vehicle recovery transmitter in their cars are given reduced insurance rates.

This system has only been in use for a short time. Watch for its use to expand greatly in the very near future. You can tell if there is a base activation transmitter in your community by monitoring 173.075 MHz. You will hear no conversations, just coded data transmissions. Signals are repeated over and over at set intervals. As an added comment, this frequency is also shared with federal government users in some selected areas.

FEDERAL ENFORCEMENT CONTINUES IN THE CB CRACKDOWN

Federal Marshals and FCC Engineers recently closed down two more commercial concerns which were selling illegal CB equipment. The owner of an electronics firm in Manassas, Virginia was recently convicted of selling illegal CB linear amplifiers and other CB radios which were not "type accepted" by the FCC. The owner of the firm faces fines up to $100,000 and one year in federal prison

In another case, U.S. Marshals and FCC Enforcement Engineers siezed an estimated $75,000 worth of illegal CB equipment in Pass Christian, Mississippi recently. Some of the siezed amplifiers were capable of transmitting CB signals of over 2,000 watts (CB transmitter power is legally limited to 4 watts). This criminal case is being prosecuted by the U.S. Attorney as this article is being written.

Many CB operators have been under the impression that the FCC has too much to do to involve itself in CB matters. In many respects this is true, however, the Commission has expressed a renewed and devoted interest in TV interference cases caused by CB operators, as this could be a first indication of illegal transmitter power. The FCC is expected to increase enforcement in the sale and use of illegal CB equipment, especially amplifiers which transmit illegal power and radios which are capable of transmitting outside the CB band.

AN INTERESTING "NOTE" ON THE PRIVACY ACT

The ECPA says that you are in violation of federal law if you listen to certain things. One of these is a communication which is broadcast on a subcarrier. I wonder if they realized that MUZAK (a commonly used "elevator music" service which is played in many offices and stores) is broadcast on a subcarrier! (Ross Engineering)

MOBILE RADIO RESOURCES ANNOUNCES NEW ANTENNA

Robert Kelty of Mobile Radio Resources has announced a new and most interesting antenna for receiving communications. The Diamond Antenna offers excellent coverage on signals between 500 kHz and 1500 MHz. There are two basic models of the antenna. The D-505, which is a omnidirectional whip antenna for mobile use, and the D-707, which is for base use. Robert says in his note that the antenna out performs anything he has ever used, and he sends data to support his claims. I was impressed by the test results, using California stations in many different bands being monitored with several different antennas, including the Diamond. Robert Kelty says the Diamond antenna is a true performer without increasing intermod and unwanted signals. With a 20 dB hybrid integrated circuit amplifier in the antenna base and a gain controller, overload is prevented while signal input is increased to the receiver. The D-505C mobile antenna and D-707C antenna come complete with cables and hardware. The mobile antenna sells for $130. The base model is $180. For more information on the products, write Mobile Radio Resources, 2661 Carol Drive, San Jose, California 95125.

CUSTOMS COMMAND CENTERS NEAR COMPLETION

The U.S. Customs Service has announced that their three command, communications centers are near completion. The Service says in an article in Government Computer News that two of the law enforcement communications and intelligence centers are already operational. The Miami, Florida center and the Riverdale, California center are already staffed and fully operational. The third, in Oklahoma City, will soon join the ranks. The Oklahoma City facility will be the nucleus of strategic operations,

not tactical. Miami and Riverdale are tactical facilities. At these two centers, Customs officers man command post positions, updating Customs and other law enforcement agencies with information primarily devoted to drug law enforcement.

When the Oklahoma City facility is finished, the duties there will be primarily devoted to over-seeing major investigations, overseas operations, large scale missions, and research. The subsystems of each facility are radar, operations and intelligence, and communications. The communications used are direct lines, radio, telephone, and other federal data networks. The centers constantly receive data from the military, the State Department, DEA, FAA, Department of Justice, state and local law enforcement agencies, as well as their own Treasury officers. RCMA was provided with photos of the Miami Customs Service facility, with future printing considered. The Customs photos were part of a proud news release on the facility in Miami.

NEW JERSEY MEMBERS CONTINUE TO FIGHT MOBILE SCANNER LAW

The Northeast Scanning News continues to update with us with news on efforts to repeal the current NJ law which prohibits scanners in motor vehicles. New Jersey has long had one of the most restrictive laws in the country regarding the monitoring of police communications while in a motor vehicle. Even licensed radio amateurs in NJ have had their ham equipment seized because most new equipment is also capable of listening out of the amateur bands, which includes police frequencies. If you are a NJ resident, we strongly encourage you to contact your state representatives, asking for their support in the repeal of this law.

UNIDEN ANNOUNCES A NEW PROGRAMMABLE SCANNER

The Uniden Corporation has announced the new Uniden MR-8100 Public Safety Scanner. Uniden says this is the first scanner ever developed for the public safety officer by public safety engineers. The radio can be "dispatcher controlled", has oversized controls for mobile operations, has large readouts, is PC programmable, offers 6 watts of loud listening power, offers patrol car-rack mounting versatility, and covers from 29 MHz through 956 MHz. The picture of the scanner in Communications News reminds one of the design of the Motorola Syntor 9000X control head.

It will be interesting to see the scanner in use. Uniden scanners have not set the standards for the industry in recent years. This may be just another Uniden scanner in a different box, or this could be something truly new and exciting. We thank Reed, AL-022, for sending us a photo copy of the ad! Maybe Uniden will send us a unit for a review.

DID YOU SEND IN YOUR JANUARY SURVEY?

The centerfold of the January RCMA Newsletter contained the Annual Membership Survey form. If you have not removed the survey from the January issue, answered the questions, and returned the form to me, I strongly encourage you to do so! We need your input and responses to guide us through 1990. Please take a few minutes to look for the January issue and complete the Survey!

I SAY IT AT LEAST ONCE A YEAR!

In the mail this month there have been several letters saying that "I have written a letter to an editor and he never responded". This is a common complaint just about every month from someone. Let me again state the club Policy on this, and tell you how to get an answer when you write.

RCMA Club Policy says staff members MUST respond to your inquiry IF you send a stamped, self-addressed envelope or postal card with your request. This doesn't mean you'll always get the answer or information that you are seeking. It just means you WILL get a response. If you write a column editor or your state associate editor, please send a stamped, self-addressed envelope with your letter, question, inquiry, or request. IF you don't get an answer, let me know and I will see what happened. Please remember, RCMA staff members are not paid for their services. We do not pay their postage costs. They are volunteers. You can not make demands when you are dealing with volunteer helpers. Most of the staff is very good about answering their mail, but your help with a SASE would be appreciated.

Remember also that most editors receive lots of mail. It is impossible to answer everyone with a long, friendly letter. Please don't write an editor with an impossible request like "send me everything you have on Texas", as these requests are impossible to fill, even for users of the RAC Frequency Program. If you have a question about your area, write your state associate editor first. And, please send that stamped, self addressed envelope with your letter!

AN RAC FREQUENCY PROGRAM UPDATE

As this article is being written, Bob Cheek is hard at work on his collection of databases, some improvements to the RAC Frequency Program for cataloging tons of frequency data, and a conversion program which will allow a computer user to convert other databases to the RAC format.

The "free" shareware RAC program is still available from Bob Cheek for a disk, a mailer that can make the round trip, a return shipping label, and a dollar. But, this is ONLY the initial version of the RAC program. During 1989, at my insistence, Bob accepted $15 from RCMA members to register their copies of the program. With work and costs increases, the registered owner fee is now $25, but it is still a bargain at that! Not only is this program now the standard for cataloging and exchanging frequency data, but program improvements and frequency databases that are available to "registered owners" of the program have set the pace for exciting things to come! Editors of other major publications, members of NASA, the FCC and many others are now users of the PC database program.

It is my understanding that "registered owners" of the program will soon be notified of an improved version of the program and several interesting databases that may be obtained from RAC. If you are not a RAC "registered owner", you will not be on the mailing list for database and program improvement announcements. The address of RAC is 22320 SW 63rd Avenue, Boca Raton, FL 33428.

RCMA AND THE SENSITIVE FREQUENCY POLICY

Several of you have written me over the past few months expressing your views on the RCMA Policy of not printing federal law enforcement frequencies. Although I agree with many of your comments and suggestions, I also believe RCMA has a position of responsibility regarding the lives of federal officers and their difficult law enforcement efforts. The RCMA Board will be meeting in mid-February. As part of their agenda, the Policy will once again be reviewed. As a law enforcement officer myself, I respect RCMA's past Policy, however, I also encourage annual review of this Policy by the Board so we may keep up with changing times and laws on this subject. I have, as your General Editor, requested an updated statement from the FCC. I am hopeful this update will be available for Board review at the upcoming meeting. We are aware that others are publishing information on this subject. An annual review of this Policy is always on the agenda. If you have views on this subject or any other subject that you would like presented to the RCMA Board, please address them to the Business Office address no later than February 5, 1990.

CLOSING COMMENTS FOR FEBRUARY 1990

I would like to thank Russ, MI-002, for his two recent news articles relating to computers and data terminals in patrol cars. Thanks also to Howard, NH-001, for his information regarding his monitoring of Hurricane Hugo ham communications. Thanks to Andy, TX-232, for his recent news articles. These and other news items have been submitted to the Associate Editors of the areas covered, for their information and forwarding to the column editors for print consideration. Thanks, guys!

With the frequency information gained from the January Annual Survey, you can expect to see some updated frequency information in coming editions of the Newsletter. It is December here at the DESK as this article is being written. The data that you have submitted should start arriving in a few weeks. As it is received, it will be forwarded to the state AEs for review and distribution for printing soon!

AIRCRAFT

Civilian: Send private, commercial, firefighting and law enforcement aircraft frequencies in the 108-136 MHz range and frequencies in other bands associated with civilian aircraft or airports.

Military: Send information and frequencies for military aircraft in the 118-140 MHz and 225-400 MHz bands and frequencies in other bands associated with military aircraft or aircraft support-related frequencies at Naval, Coast Guard, and Marine Air Stations, Army Air Fields, and Air Force Bases.

Send information, questions, articles, and tips related to aircraft monitoring to:

Darrel Charest, 3420 Trenary Lane, Colorado Springs, CO 80918

Firefighting and law enforcement aircraft freqs and airport security freqs are welcome in this column and in the Public Safety columns. Civilian and military HF SSB freqs are OK when handed off to or from ARTCC controllers; otherwise, send to the Below 30 MHz column. All air show associated frequencies are fair game. Other non-aircraft-related military freqs go to Federal Government and Military column.

With the busy holiday season behind us, we hope the remaining winter months will allow us time to enjoy some serious monitoring.

During the past month you contributed frequencies and some interesting thoughts and questions.

Rickey, NJ-001, mailed a New York Times International clipping dateline Ravenna, Italy interviewing Capt G. Miniscalco, a member of the Italian flight demonstration team—Tricolor Arrows. Capt. Miniscalco continues to be a performer with the Italian team that suffered the horrible mid-air collision during a performance at Ramstein Air Base Germany. As might be expected, thoughts of the previous disaster continue. "If he and other performers did not worry about flying they would be less than normal." Certainly most of us would agree!

Marty, TX-216, sent a clipping from Dallas Times Herald with details on the opening of a new Garland Heliplex. The facility will be used primarily by emergency medical services, law enforcement and news media helicopters. Marty reports the heliplex uses 123.05 for most communications. For a time Marty was in Baylor Hospital on the llth floor in close proximity to the heliport and within range of some great listening. Unfortunately he couldn't take advantage of these conditions because he couldn't convince his wife to bring his new PRO-2021 to the hospital. In another letter he sends an extensive frequency listing for the DFW area that appears at the end of the column.

Norm, MN-061, wrote with some questions relating to "chaff drops and ECM." He reports B-52s near Mason City, Iowa sometimes request clearance from Minneapolis ARTC Center for a "chaff

drop." Often the request mentions "India 3 thru Juliet 10." Norm assumes these are grid coordinates but was told by a Minneapolis Center controller, India 3 and Juliet 10 were ECM channels and classified information.

Without any knowledge of India 3 and Juliet 10, I couldn't confirm or deny ECM information as to frequencies or grid coordinates. On the other hand chaff drops were a familiar occurrence. They were for real. When released, chaff appeared on radar as a long thin target growing ever longer and wider during its slow fall to earth. In actual appearance, chaff is identical to the tinsel used for decorating your Christmas tree.

Similarly, ECM required approval from the controlling ARTC Center before the signal could be radiated. Sometimes the ECM interference completely obliterated the radar scope, on other occasions it would appear as just a spoke in a wheel. If ECM posed a problem to air traffic control, a call on Guard, the military emergency channel, eliminated the interference within seconds.

Look in *New Products Review* for an ATC computer simulator program from Wessons International titled "TRACON, an air traffic control simulator." The contributor, who wishes to remain anonymous, reports "It's an impressive simulation including a radar screen, list of pending and active flight plans including synthesized voices for radio traffic. Tracks on radar are flagged with callsign, altitude, whether climbing or descending as well as other details." This seems far too realistic for a former ATC controller—like your editor—to enjoy. But for monitor listeners and pilots it could prove to be the ultimate video game. Additional details will be covered in *New Products*, or, feel free to write for information on pricing and geographical areas used in the simulation.

From APO New York, Don, CASF-024, contributes a frequency listing compiled while he was stationed at Mt Home AFB, Idaho. He found communications on 271.3 interesting and sometimes exciting because it was often used by the SOF or Supervisor of Flying for assistance and advice during an emergency. Look for Don's list later in the column.

Chris, CALA-775, continues to pose questions helpful to me in preparing the column. Questions from Chris include, what is the meaning of VFR, TCA, ILS and localizer? What frequencies do helicopters use for air traffic control? Do military flight operations use HF as often as VHF and UHF? What is Coast Approach? What is the meaning of altimeter setting?

All are good questions and each could serve as the subject of one or more columns. Space limitations require brief answers and some simplification.

Beginning with **VFR**—visual flight rules. The term indicates the pilot is flying clear of clouds with three miles or more visibility. Usually, but not always, the pilot is in visual contact with the ground.

TCA is a terminal control area where the ATC facility exercises positive control of air traffic within the area. TCAs surround all major airports.

ILS is the acronym for instrument landing system, and the localizer is a component of the ILS providing a precise track to the runway. The glide path is the component displaying a precise glide slope to the runway.

The ATC handling of helicopters is similar to that applied to fixed wing aircraft. Yet some procedures allow for the flexibility of helicopters. For example, takeoffs and landings can be approved from a ramp instead of the active runway.

Coast approach is the ATC facility located at El Toro MCAF, providing ATC service for the southern portion of the Los Angeles basin.

Altimeter settings allow this instrument to be adjusted for changes in atmospheric pressure. An inch of barometric pressure is approximately 1,000 feet. Therefore a few points difference on the altimeter setting can result in a significant error in altitude.

During the month we heard from Clay, GA-94, with information about Moody AFB and military operations in his area. Clay reports that Moody AFB has three MOAs used for training. Some of these include simulated combat exercises, intercepts, refueling and others not identified. Lacking UHF capability, Clay can observe the refueling but can not monitor it. Look for his frequencies below.

++

From Don, CASF-024, for Mountain Home AFB, Idaho

122.00	FSS Receive	122.80	Unicom
124.80	Approach Control	126.20	Tower
127.10	Clearance Delivery	253.50	Tower Chnl #3
255.4	FSS Chnl #10	259.10	Apch Chnl #12
271.3	SOF (Emgcy)	273.5	ATIS
275.8	Ground Chnl #2	284.0	GCA Chnl #14
342.5	Metro (Wx) Chnl #19	349.0	GCA Chnl #15
363.8	Apch Chnl #11	369.2	GCA Chnl #16
371.2	Pilot to Dispatcher	373.0	CD Chnl #9
464.175	Andy's Air Service	464.175	Arrow Aviation

++

From Clay, GA-94, for Valdosta, Ga.

118.00	Unkn	118.05	Unkn
118.70	Unkn	119.85	Unkn
138.05	Unkn	138.1	Unkn
138.2	Unkn	138.25	Unkn

AIRCRAFT continued

138.3	Unkn	138.4	Unkn
138.5	Unkn	138.9	Unkn

Frequencies confirmed by Clay though services are not identified.

++

Listing for Dallas/Ft Worth from Marty, TX–261.

118.10	DFW Apch Control	118.30	Meacham Tower
118.55	DFW Dept Control	119.05	DFW Apch Control
119.40	DFW Apch Control	119.80	Carswell AFB Twr
120.50	DFW Apch Control	120.70	Meacham ATIS
120.90	Meacham Tower	121.10	Addison Tower
121.65	DFW Grnd Control	121.70	Carswell Grnd
121.80	DFW Grnd Control	121.85	Carswell Grnd
121.90	Meacham Grnd	129.225	American
129.325	American	129.25	Southwest
129.50	Delta	129.65	Delta
129.825	DFW Ramp Control	130.175	Northwest
131.025	American	131.275	DFW Ramp Ctl
131.45	Care Flight Chnl 2	131.675	Care Flt Dispatch
132.10	DFW Apch Control	132.85	DFW Apch Control
133.30	Ft Worth Center	134.15	Ft Worth Center
134.90	DFW ATIS	135.50	DFW ATIS
140.10	Navy Dallas Rescue	146.88	Dallas Skywarn
146.95	Tarrant Skywarn	147.18	Collin Skywarn
148.095	Gen Dynamics Rescue	148.245	Gen. Dynamics
149.5625	Carswell AFB Opns		

AMATEUR RADIO COMMUNICATIONS

This column is for reporting on amateur radio activities that may be of interest to scanner listeners. Send reports and questions concerning repeater nets, civil emergency systems, packet radio, amateur TV, etc., to:

Gordon West, 2414 College Drive, Costa Mesa, CA 92626

Ham radio operators are receiving plenty of attention for all their efforts during the recent San Francisco earthquake, and the devastating East Coast hurricanes last year. Chances are you envision a ham operator as an oldtimer with a set of headphones, blazing away at an old brass telegraph key. Or maybe you think the more up-to-date ham is that middle-aged man, chomping on a cigar, barking orders over his microphone.

How ham radio has changed! The recent disasters energized the high-tech ham, now in his or her 20's and 30's, to transmit messages over their home computer, tied into their ham rig. This "packet radio" type of transmission is similar to what the police departments are using with CAD (computer aided dispatch). Bursts of digitized information zing from digital repeater to digital repeater, and onto the proper party in a matter of minutes--error free! And these digital repeaters (called digi-peaters) are nothing more than a simple ham set at each operator's home, tied into their lap-top or home computer system. Pretty smart, huh?

The following is a typical packet message--in fact, the introduction is on packet radio, and the actual message was on packet radio, too. Read it over, and I think you'll begin to see that ham radio is indeed "high tech".

Also, this month, we have some input on repeater outputs (a little play on words) from the many RCMA members that are hams, or ham/shortwave listeners.

And did you make your New Year's resolution for the new decade to get your ham radio license? It couldn't be easier for both worldwide as well as VHF and UHF voice and packet radio privileges. Don't hold your breath for a no-code license--it's still at least a year off, and the privileges you'll ultimately

receive will be miniscule as compared to present Novice voice-class privileges. And don't forget, it only takes a simple get-together of 2 other hams to give you the easy code test and theory test. In fact, they could even do it at your house RCMA tonight.

So here's the input on all those outputs--and keep that mail coming in on what you're hearing on the ham bands. You'll see it here, soon.

BATTLE CREEK,MICHIGAN AREA AMATEUR FREQUENCIES SEND BY DANNY MI-053

BATTLE CREEK IS LOCATED IN SOUTH CENTRAL MICHIGAN AT THE CONFLUENCE OF THE KALAMAZOO AND BATTLE CREEK RIVERS AT AND ELEVATION OF 920 FEET ABOVE SEA LEVEL. 114 MILES WEST OF DETROIT AND 162 MILES EAST AND NORTH OF CHICAGO. 46 MILES TO THE NORTH IS THE STATE CAPITAL,LANSING. BATTLE CREEK IS THE LARGEST CITY IN CALHOUN COUNTY. BATTLE CREEK EST. 1831 CHARTERED 1859. 20th LARGEST IN POPULATION AND 2nd IN LAND AREA. SPRINGFIELD CITY IS SURROUNDED BY BATTLE CREEK CITY.

BATTLE CREEK HAS HOSTED 6 HOT-AIR BALLOON CHAMPIONSHIPS SINCE 1981. LAST HOT AIR BALLOON CHAMPIONSHIP WAS JUNE,17-24,1989.

KELLOGG COMPANY CEREAL PLANTS AND WORLD HEADQUARTERS,POST DIVISION (OF GENERAL FOODS) ARE THE TWO LARGER INDUSTRIAL EMPLOYERS.

BATTLE CREEK IS PUTTING IN A SATELLITE-COMMUNICATION SYSTEM AND ENLARGED DISPATCH CENTER IT WILL BE USED BY ALL AREA POLICE,FIRE AND AMBULANCE SERVICES. THE MODERNIZATION WILL CONSOLIDATE CENTRAL DISPATCHING TO ELIMINATE SEPARATE DISPATCHING OF ALL SERVICES. IT WILL UPGRADE FIELD EQUIP-MENT. POLICE AND FIREFIGHTERS WILL HAVE NEW EIGHT-CHANNEL, HAND-CARRIED RADIO UNITS. THERE WILL ALSO BE BACK-UP CONSOLES IN CASE OF MAIN SYSTEM FAILURE. ALSO IN THE YEARS TO COME THE STATE-OF-THE-ART EQUIPMENT CAN BE UPGRADED AND FULLY COMPUTERIZED.

BATTLE CREEK,MICHIGAN
AREA FREQUENCY LIST

FREQUENCY	DESCRIPTION
143.90	C.A.P.
143.45	MARSHELL REPEATER
146.66	BATTLE CREEK AMATEUR REPEATER (147.000 KALAMAZOO AMATEUR REPEATER)
146.94	EMERGENCY RESCUE CIVIL DEFENSE (WEATHER)
147.12	SKY WARN (MARSHALL,MICHIGAN AMATEUR REPEATER)
147.28	BACK-UP FOR BATTLE CREEK AMATEUR REPEATER (E C O N NET)
147.285	" " " " " " " " " "
148.15	C.A.P.
155.10	CALHOUN COUNTY CIVIL DEFENSE/SHERIFF CHANNEL 2
156.105	BATTLE CREEK EMERGENCY SERVICES CHANNEL 5 (4) (MOBILE RELAY REPEATER)
156.109	WEATHER
162.40	NOAA/U.S.WEATHER (LANSING,MICHIGAN/TOWER NEAR JACKSON, MICHIGAN AT ONODAGA,MICHIGAN)
162.55	NOAA/U.S.WEATHER (GRAND RAPIDS,MICHIGAN)

SOURCE: RCMA NEWSLETTERS,FOX SCANNER RADIO PUBLICATIONS, POLICE CALL RADIO GUIDES,AIR-SCAN DIRECTORY AND AIR-SCAN 4 TH EDITION,RAIL-SCAN,BATTLE CREEK ENQUIRER, MONITOR AMERICA (1985-86),ENERGY-SCAN DIRECTORY,REGISTRY OF U.S. GOVERNMENT RADIO FREQUENCIES (1987),BETTY BEARCAT FREQUENCY DIRECTORY (EASTERN EDITION) 1987 AND OTHER PEOPLE.

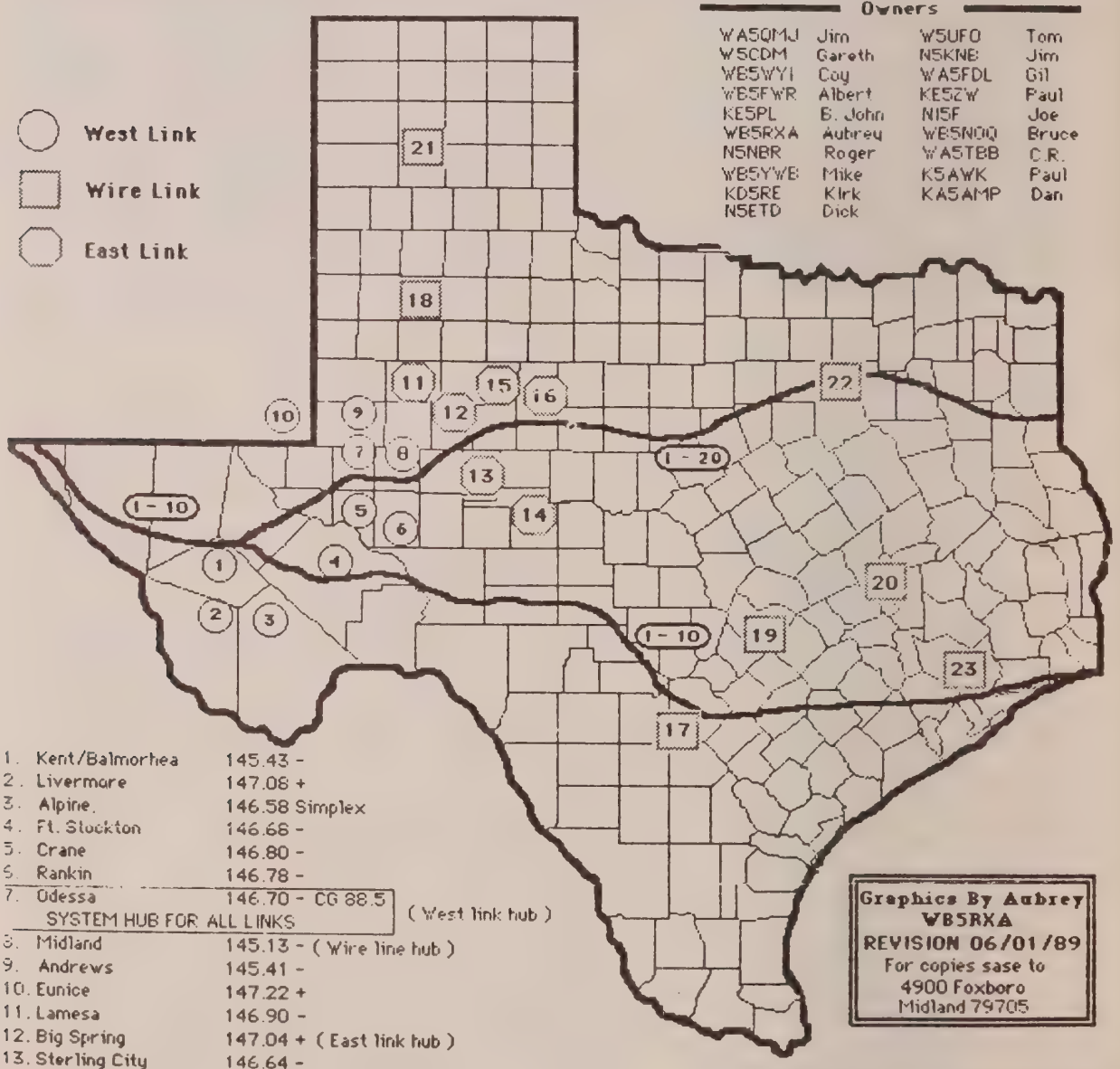
Here is a list of the 2-Meter HAM repeaters that I can receive from my home here in Groveland, Groveland is on Hwy 120 just 50 miles west of the Yosemite National Park at 3,000 feet elev..

From George (CA-TO-001)

	Frequency	Call sign	Location / Area
1.	146.640	W6 WSH	San Jose, Calif.
2.	147.945	W6 FEJ	Sonora, Calif. (Tuolumne County)
3.	146.115	W6 FGC	Sonora, Calif. (Tuolumne County)
4.	147.975	?	?
5.	147.330	?	?
6.	147.175	?	?
7.	146.685	?	?
8.	146.835	?	?
9.	146.850	K6 OGX	Bear Mt./Fresno (Fresno County)
10.	146.725	?	?
11.	146.965	?	?
12.	147.030	W6 BXN	Mt.Bullion/Mariposa (Mariposa County)

All of the above is in California.

The West Texas Connection



1. Kent/Balmorhea 145.43 -
2. Livermore 147.08 +
3. Alpine 146.58 Simplex
4. Ft. Stockton 146.68 -
5. Crane 146.80 -
6. Rankin 146.78 -
7. Odessa 146.70 - CG 88.5 (West link hub)
   SYSTEM HUB FOR ALL LINKS
8. Midland 145.13 - (Wire line hub)
9. Andrews 145.41 -
10. Eunice 147.22 +
11. Lamesa 146.90 -
12. Big Spring 147.04 + (East link hub)
13. Sterling City 146.64 -
14. San Angelo 146.88 - (DTMF callup)
15. Snyder 146.86 -
16. Sweetwater 147.12 +
17. San Antonio 147.38 Simplex CG 88.5
18. Lubbock 147.58 Simplex CG 88.5
19. Austin 147.54 Simplex CG 88.5
20. College Station 147.58 Simplex CG 88.5
21. Amarillo Proposed
22. Dallas Proposed (DTMF callup)
23. Houston Proposed (DTMF callup)

Graphics By Aubrey
WB5RXA
REVISION 06/01/89
For copies sase to
4900 Foxboro
Midland 79705

This system is utilized by the National Weather Service and Amateur Radio Sky Warn Spotters during severe weather.

THANKS ANDY LANGE !

BEGINNER'S CORNER

If you are new to monitoring or have a question about something you don't understand, please write to me at the address given below, and I'll try to answer you. When posible, your questions and answers will be printed. For those who wish an immediate reply, please send a self-addressed, stamped envelope.

Edward Gleason, 2513 Bucida Drive, Sarasota, FL 34232

Welcome to February, fellow Beginners! I hope all is well with everyone. I have accomplished some things this past month that I had previously put off. Among them, I finally put up an outside antenna which was an accomplishment for me. I attached the antenna to my television aerial and it sits about 30 ft. up. The difference in my reception is night and day. This was something that I had contemplated for a long time but put off doing.

Anyone out there who is not currently using an outside antenna, I would suggest that they give consideration to the idea. Of course if you are currently very happy with your reception and wouldn't think of making any changes, please ignore this suggestion. However, if you are seeking improved reception, coverage of greater distances and in general, better monitoring, an outside antenna is the way to go. There are potential drawbacks. For instance intermodulation may occur when strong signals (made stronger by the outside antenna) mix together. Unless your antenna is correctly grounded, you may face an electrical danger, i.e. lightening. If you are not electronically or mechanically inclined and are unsure of how to go about installing an outside antenna, please consult someone who knows what they are doing.

Amateur that I am, I went about my installation by myself with some long distance advice from our New Products editor and a friend. Prior to this expedition I had never soldered anything in my life. My installation required the soldering of two PL-259 connectors on 60 ft. of coax. I have to be honest in telling everyone that it is not the first time that I have had to do a project twice. Usually I get to do the entire project from start to finish twice. I don't do this for the exercise, rather I almost always screw something up on the first round, just ask my wife. In this case only my soldering had to be redone. Apparently I managed to secure the antenna itself on the first trip (how novel). So much for Ed's misadventures. You can see that I speak from experience when I recommend knowledgeable technical assistance (preferably on-site) if you don't have a clue. Obviously I didn't.

Last month I said that I would print a frequency allocation table. Well someone saved me the trouble (and did a much better job too! In the November, 1989 edition of the U.S. Scanner News there is a very detailed frequency allocation table in the centerfold. It seems that this table (ranging from 29.7 - 1300 MHz) is available as an excerpt. The cost is .25 for an 8.5 x 11 condensed reprint and .50 for the full sized 11 x 17, plus $1.00 for handling and postage. You can obtain more information by writing to Bob's Publications, P.O. Box 1103, Vancouver, WA 98666. Also, a subscription request would be sent to the same address and costs $15.00 per year for U.S. residents.

I also promised to go ahead with the Listener Information Exchange Program. What I propose to do is to record the information I receive in a database. Those interested in participating should send me a S.A.S.E. along with your name, membership number, address and top three monitoring interests, e.g., Public Safety, Railroads, Aircraft, etc. (please number your interests). I will send those members from whom I receive information and the S.A.S.E., a printed copy of the listing after a suitable amount of time for the list to grow. Members participating should be willing to write to other members who may share their interests or live nearby. Everyone should be willing to take the initiative. In other words after you send me your information, allow one to two months to pass for names and interests to accumulate. Then I'll send everyone interested a copy. Updates may become necessary but I'll have to see how the program shapes up before I tackle that. Depending upon the demand, we can make this a regular program. I can request input through the column and as new members join we can add to the ranks of our information exchange.

This program will facilitate an exchange of information between members. The only time we see a fellow member's name and address is when they join - and that is only if they do not request that it be withheld. Many members may have their name and address withheld when they join and down the road wish to share information with other members who may live near by or share the same interests. This could spawn new sub-groups within states, counties or cities. Maybe we all will make new friends. Once again, when you get your list you should be willing to write to a member or members on the list who share interests with you or lives nearby. When writing, you may want to include some information about yourself, such as whether or not you are technically oriented regarding electronics. Those of you who are could be a big help to us electronically illiterate members. Frankly, there is no end to the information that can be exchanged.

On the other hand, if the program fails it will only be because of a lack of interest and initiative on the part of the membership. The preceding editor of this column ran a similar program called the Contact Registry. How successful it was I have no way of knowing. The potential for success is equal to the potential for failure; it all depends upon membership interest.

See you next month.

Below is a form/format to be used for forwarding your information to me:

_____

NAME:_____

MEMBERSHIP NO.:_____

STREET ADDRESS:_____

CITY:_____

STATE:_____

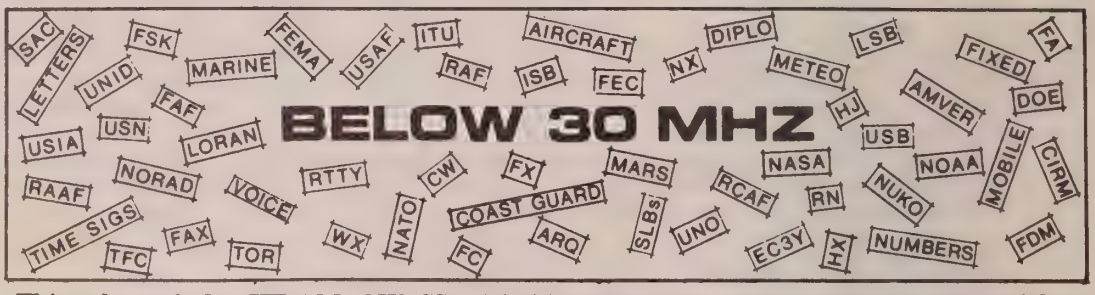
ZIP CODE:_____

MONITORING INTEREST #1:_____

MONITORING INTEREST #2:_____

MONITORING INTEREST #3:_____

OTHER:_____



This column is for HF AM, CW, SSB, RTTY and FAX reception reports, notes, articles, and questions related to HF utilities. Services covered in this column include aeronautical, coastal/marine, weather, government, military and 'spy' stations—essentially everything except broadcasting, CB and amateur radio. Send reports to:

Hugh Stegman, 4354 Coolidge Ave, Los Angeles, CA 90066

This column has a two month lead time, so the 1989 "DX season" is just winding down as I write it. The dreaded solar flares did indeed materialize, but if anything they just made things more interesting by bringing in many auroral, backscatter and equatorial spread-F paths. HF coverage was phenomenal, often all directions at once, and with very small skip zones. On VHF, signal strengths peaked around the U.S. Thanksgiving Day, with many 48 MHz stations here.

The natural disasters and world events of the period combined with these peak conditions to produce one of the most exciting seasons for HF listening in a generation. Those of us who were lucky to be around may have some good stories for future beginners, provided that anyone will believe them. Let's hear yours; I promise not to scoff...

Yet More USAF/SAC:

Clay (GA-94) has tracked down more of those "Whisky" frequencies, as they are referred to in USAF comm. They are: 5800, Whisky 101; 7475, W-104; 7831, W-105; 11179, W-108. It starts to look like a simple, sequential plan. He also has heard 9017 kHz called "X-ray 904", and 11226 as "X-ray 905".

Return of Spook Radio?

A member who desires anonymity sent along a photo from Jane's Defence Weekly of 18 October 1986. It shows a grid chart used by the USSR to encode messages for transmission. The chart is too big to

reproduce here, so I'll describe it. There are 9 rows and 11 columns, each with a number ID. To encode, one finds the square with the desired phrase inside. The column and row numbers are then broadcast. An unseen element is probably also used, since the chart in the photo is still rather ambiguous. One cannot reliably decode number messages off the air from it, but even so it's fun to speculate. The pairs of 2-digit numbers lend themselves to short, 4F messages. As a crude example, "1834 1895 3687 1822 0430" would (more or less) decode to, "Infantry has left road with wounded."

At first, I couldn't think of any transmissions in this format, but then it hit me -- the 13267 kHz "Spook"!!!!!!!! Remember this spy net? In 1987 and '88, it met nightly (L.A. time), with sporadic use of several other frequencies between 13190 - 13300. Remember their use of Cyrillic Morse and "cut" numbers of an AU345D78NT substitution? Remember how their little radios never seemed to work all that well, with drift and chirp? This activity seemed to wind down along with the Afghan war, although propagation could also be a factor. Now I wish I'd kept copies of messages. I'll just have to look for new ones. Meanwhile, we have another tantalizing possibility for my favorite undocumented radio activity. It starts to sound like some sort of intelligence traffic for USSR allies or trainees. Wow. I think I'm dizzy.

This same source also provided a long list of HF frequencies and callsigns licensed to California aerospace companies. We'll get into it starting next month.

More maritime frequencies (courtesy CA-SD-073):

COAST STATION WOM (AT&T Station WOM, 1350 N.W. 40th Avenue, Fort Lauderdale, FL 33313; (305) 587-0910)

Channel	Coast fq	Ship fq	tfc/wx?
(distress)	2182.0	2182.0	-
209	2490.0	2031.5	-
247	2442.0	2406.0	-
221	2514.0	2118.0	-
245	2566.0	2390.0	-
423	4425.6	4131.2	-
417	4407.0	4112.6	-
412	4391.5	4097.1	-
403	4363.6	4069.2	yes
825	8793.3	8269.4	-
810	8746.8	8222.9	-
805	8731.3	8207.4	-
802	8722.0	8198.1	yes
814	8759.2	8253.3	-
831	8811.9	8288.0	-
1215	13144.2	12373.4	-
1209	13125.6	12354.8	-
1208	13122.5	12351.7	-
1206	13116.3	12345.5	yes
1223	13169.0	12398.2	-
1230	13190.7	12419.9	-
1616	17279.4	16506.5	-
1611	17263.9	16491.0	-
1610	17260.8	16487.9	-
1609	17257.7	16484.8	-
1601	17232.9	16460.0	yes
2222	22661.1	22065.1	-
2216	22642.5	22046.5	-
2215	22639.4	22043.4	-

Traffic lists are sent at 0100 UTC and every 2 hours thereafter. National Weather Service forecasts are at 1300 and 2300. Neither will be sent if the channel is busy. All traffic is USB or R3E (USB with a -18 dB carrier, for easier tuning or PLL detection).

Keep in mind that AT&T publication #1WB 006, the "High Seas Radio Service Fingertip Guide", has just about everything you'd ever need to know about these transmissions. Again, I'd like to thank Brian for his contribution.

Making Book:

According to "Sweden Calling DX'ers," there is a new, 500-page, Klingenfuss Guide to Utility Stations out. I haven't seen it, but it is supposed to be very complete. It's probably available from the usual sources, or Klingenfuss Publications, Hagenloher Str. 14, D-7400 Tuebingen, GFR.

Log for February:

2755.0	CW	11/10/89	0623	"CKN C13E" mkr (Canadian Forces, BC)	e
4760.0	USB	??	0115	"Retailer 1" wkg 5&7/ Air Natl Guard	+
6521.9	USB	10/09/89	0440	"KRG 892" YL on channel #606	e
6521.9	USB	10/25/89	0528	"KIV 982" coastal stn wkg ships	e
8828.0	USB	10/31/89	0708	"Honolulu"/EE/VOLMET	*
8846.0	USB	??	0117	"New York" ATC wkg Pan Am a/c, SELCAL	+
8873.0	AM	10/31/89	0710	SS/YL/4F	*
				[Always a good fq to catch SS/YL, near the end of the month, 0600-0730 - ed]	
8957.0	USB	10/31/89	0723	Shannon VOLMET in EE	
8981.0	USB	10/19/89	0458	USN/ "Green" scrambling on daily	e
8993.0	USB	??	0120	MAC 6018 patch to FORMAT thru MacDill	+
10045.0	USB	10/31/89	0704	Stn wkg "Boeing III"/ QSY from 8822	*
11243.0	USBB	09/21/89	1916	USAF/ coded voice messages	*
11570.0	RTTY	10/19/89	1048	USN, Panama/ unclassified tfc (850/75R)	*
11628.0	H3E	11/13/89	0549	FF/OM/3F preamble, then 5F/distorted	e
11638.0	RTTY	10/13/89	1136	"DDK 8"/ RY & CQ mkr/ Hamburg, GFR (425/50R)	*
15705.0	RTTY	10/26/89	1114	"YZJ 6"/ Belgrade, Yugoslavia/FF/nx (425/50R)	*
18230.0	RTTY	09/15/89	1038	"GFL 25"/ Bracknell Metro, England (850/50R)	*
22320.0	CW	09/01/89	2309	"WLO" (Alabama) wkg tanker "C6HV8"	*
28202.5	CW	10/14/89	1934	"ZS5VHF" 10M propagation bcn/ RSA	e
28277.0	CW	10/14/89	2031	"DF0AAB" 10M propagation bcn/ GFR	e
29297.0	CW	10/03/89	1605	"WA4DJS" 10M propagation bcn/ 20 wts	*
				[Probably Ft. Lauderdale, FL, on 28297.5 - ed]	

* = Lance (VT-005) + = Clay (GA-094) e = editor

CANADA

Send Canadian frequency information, radio system details and other information relating to Canadian monitor listening and questions to:

Rob Berezowski, 50 Newstead Ave, Regina, Saskatchewan, Canada S4X 1H2

Greetings all and welcome to the February Canada column. Regular readers will have noticed that the typing format for my column has changed. I have started using a PC compatible at the office for my columns in order to assist Carol in creating a newsletter with a uniform text style. If all goes well, she should be able to use the computer ASCII file on the diskette I'm going to mail her. She'll then spruce it up (and hopefully she won't have to correct any of my mistakes) and put it directly into the newsletter. From what I hear I'm sure all the members will be pleased by the results. This seems to be another hint that I should get my own PC compatible for home use to replace the Commodore 64 I have now. Anyone out there want to help out a poor editor with some cash?

My first letter this month comes from Dave (CANA-027). He sent in some articles that I will briefly summarize. First of all, several of the articles dealt with a new Enhanced 911 system installed in the Victoria area. The new system is now servicing the Capital Regional District, which includes Central Saanich, Esquimalt, Langford, Metchosin, North Saanich, Oak Bay, Outer Gulf Islands, Saanich, Saltspring Island, Sidney, Sooke, Victoria, and View Royal. These locations, unless I am mistaken, are all on Vancouver Island. The only problem reported during startup was with people testing their automatic telephone dialers. If the caller hangs up and/or the 911 operator does not get an answer, then a police car is dispatched. This becomes a nuisance to the police very quickly.

The Langford Fire Department has also expanded their alarm room in anticipation of the added responsibility of answering 911 fire calls for all of the Western Community. Previously they were answering calls for Langford, Metchosin, Sooke, East Sooke, and East Highlands. They are now also answering calls for View Royal, Colwood, Willis Point, Otter Point, Shirley, Port Renfrew, Malahat,

Jordan River, Beecher Bay Indian Reserve, and Patcheena Indian Reserve. When the 911 call comes in, it first rings at the Public Service Answering Point at the Colwood RCMP detachment. They immediately determine if it is a fire, police, or ambulance call, and route the call appropriately.

The next article describes a marine rescue where the crew of the Coast Guard Auxiliary Vessel Responder from Oak Bay found themselves in peril. The three men were assisting two CKDA technicians who were stranded at the station's transmitter on Chatham Island. Enroute to the scene, the 8 metre boat began taking on water in very rough seas. The crew abandoned the vessel after sending a mayday signal. The Search and Rescue Coordination Centre in Victoria then went into distress phase and alerted all vessels in the area. The three crew members were located and rescued without injury. Meanwhile, the two stranded technicians were rescued by another vessel. Dave is a radio operator for the Responder, and reports that VHF Marine channels 4A, 16, and 22A were used during the incident.

Thanks very much for letter, Dave. Let's hope for better luck on the next rescues.

My next letter comes from a member who wishes to remain anonymous. He sent in a couple of corrections to his Toronto area list that appeared in the July 89 Canada column. Sheridan College Security is now on 454.2000. The old frequency of 462.9375 is now shared by a towing company and a courier service, both located in Hamilton. Our member sent in another list for the Toronto area:

Ambulance Services	Halton–Peel Region	143.370
	Hamilton	150.695
		154.385
	Metro Toronto	148.165
		148.360
		150.530
		151.820
		152.375
	Paramedics	143.340
	Niagara Region	152.135
		155.130
	Ontario Common Channel	150.100
	St Catherines	414.2625
Fire Departments	Burlington	155.910
	Hamilton	154.830
	Mississauga	154.235
	St Catherines	153.770
	Toronto	411.7875
		411.8625
		411.9875
		412.3125
		414.7625
	Wentworth Region Volunteers	154.250
	York	154.890
Police Departments	CP Rail Police	159.885
	Metro Toronto Police	142.875
		155.235
		155.520
		156.000
		156.240
	Detectives	412.2875
		412.8875
	Niagara Parks Police	159.270
	Niagara Regional Police	142.410
		142.545
		142.575
	York Regional Police	139.275

Thanks very much, mystery member, for your list. I hope we'll hear more from you in the very near future. To add to the list above, I also have a letter from Stuart (CANA–099). He was working in Toronto for a while, and monitored the following from locations in Oakville and Mississauga using a PRO–2004 and the back of the set antenna:

Halton Region	Burlington Police	142.095
	Oakville Police	142.515
	Burlington Fire Dept	154.205
	Burlington Volunteer Fire Dept	155.910
	Burlington Spectator Newspaper	154.710
Peel Region	Ambulance	149.605
	Fire Mutual Aid	154.800
	Brampton Fire Dept	154.280
		150.950
	Mississauga Fire Dispatch	414.5875
	Ontario Fire Marshall	154.070
	Ont Prov Police (OPP)	143.310

CANADA continued

Toronto	Paramedics		143.340
	Ambulance Repeater		156.195
	Toronto Police Marine Unit		155.490
	Toronto Airport RCMP		413.2875
Ontario	Common Police Channel	142.770	

My next contribution comes from Richard (CANA-138), a relatively new member to RCMA. Richard lives in Windsor, and monitors both Windsor and the neighboring city of Detroit. Richard supplied the following frequencies for Windsor:

Windsor Police	West side Precinct 1	Ch 1	142.035	
	East side Precinct 2	2	142.215	
	City wide Detectives	3	142.875	
	Ontario Common Channel	4	142.770	
Windsor Fire	Dispatch	Ch 1		154.145
	Fireground	2	154.280	
	County Dispatch	3	153.770	
Windsor Ambulance	Ontario Common Channel	Ch 1	150.100	
	Hospital Patch	2	149.605	
	City & County Dispatch	3	150.665	
Windsor Star	Newspaper Circulation		164.100	
	Reporters & Photographers		167.595	

Richard reports that the Windsor Fire Dept has put their new mobile command post into service. The unit is an old Windsor Transit bus, purchased for $1. The fire department then converted it into a $170,000 unit. The communications centre at the rear is equipped with computers, radios to contact other city services and county fire departments, and cellular phones. The middle of the unit has a large table on which maps, watermain grids, and other reference material can be layed out. The front of the unit is a briefing area for the news media. A power generator with fuel to run for a week is provided. The command post will be used at major fires and other emergencies. It is equipped with standard emergency lights and siren, and is also available to all county departments.

At the present time, the Windsor Fire Dept has the following stations and apparatus:

WINDSOR FIRE DEPARTMENT

Station 1 (Downtown) Engine 1, Engine 1A, Aerial Tower 1, Command 1
Station 2 (East side) Engine 2, Aerial Tower 2, Squad 2, Command 2
Station 3 (South central) Engine 3
Station 4 (West side) Engine 4, Ladder 4, Squad 4
Station 5 (Far south side) Engine 5
Station 6 (Far east central) Engine 6, Ladder 6
Station 7 (Far east side) Engine 7

Command cars are the District Chiefs. For all calls in the central and west areas of Windsor, Command 1 and Squad 4 respond. Command 2 and Squad 2 answer all calls on the east side. In addition, there are a number of older engines and ladder trucks that sometimes fill-in for the regular apparatus during major fires. The Windsor Police Dept have two

Stations. The #1 (HQ) Station is downtown, and serves downtown and the west side. The #2 Station serves the eastern and southern parts of the city. The 100 series of patrol cars work out of HQ, while the 200 series operates from #2 Station. City-wide Detectives are 300 series cars, and Traffic units are the 500 series cars. The 500's include motorcycles, plus the "Wagon" for each Station.

Richard also passed along a newspaper clipping stating that the Ontario Provincial Police (OPP) will be changing the color of their new patrol cars in 1990. The traditional black and white colors are being changed to white with a blue-and-gold stripe. The traffic officers like the new design because it will make the cars harder to spot from a distance. As the OPP vehicles are retired, the new replacement units will sport the new colors. It will also save the OPP about $280 per vehicle because they are all one color. About 1200 cars, vans, and motorcycles will be replaced over the next 5 years.

Another newspaper clipping says that Weatheradio Canada is now operating in Windsor on 162.475. The transmitter covers Essex county, but it has been received as far away as Chatham. Windsor is a priority area for Environment Canada, operators of the Station, because tornadoes are common in the area. The Canadian Coast Guard helped pay the $80,000 equipment costs, and is strongly encouraging all boaters to use the service. Local weather and marine forecasts are continuously broadcast, updated at least 4 times per day. In addition, the standard alert feature is provided, allowing specially equipped receivers to trigger an alarm when the alert tone is transmitted, warning of severe weather. According to the article, Weatheradio service has also been extended to Sault Ste Marie and Thunder Bay.

Thanks very much Richard of Windsor. My next letter comes from Jim (WA-003), who lives in Bellingham, Washington. He slid over to the Abbotsford Air Show last summer, and monitored the following on his BC-200XLT, aided by his Opto Electronics frequency counter:

ABBOTSFORD AIR SHOW

Air Show Security	F1	406.2375
Operations	F2	406.9875
Exhibitors Tent Contract Security	Security F1	464.9125
	Media Info F2	464.6000

CANADA continued

St John's Ambulance		162.3000
Abbotsford Tower (Air Show Control)	VHF	121.0000
	UHF	295.0000

Jim says that the Air Show Operations and Security people had about 200 new 2 channel General Electric (GE) portable radios. The Exhibitors Tent security was contracted to Invicta Security who used Com-West Rental portables. The Public Address audio was also broadcast on 95.3 MHz (FM) using a low power transmitter, and could be heard up to about 1 km from the airport. About 300,000 people attended the 3 day show. Thanks a lot for the excellent information Jim. I hope they use the same frequencies in 1990!

To finish off this column, I'm going to pass along some information I recently came across in some newsletters that passed across my desk at work. The information comes from the Nov 2/89 issue of Electronics Communicator, and talks about the Dept of National Defence (DND) Tactical Command Control Communication System (TCCCS) project. The Dept of Supply and Services has recently issued a Request for Proposal (RFP) to seven Canadian firms requesting costs to deliver equipment for the IRIS radio system to update the Canadian Forces communications system.

The TCCCS project was originally a 3 phase proposal, but the government cut the program budget to $1 billion from $3 billion. The IRIS radio system involves the design, manufacture, supply and installation of the following radio products. The single largest order is for about 16,000 combat net radios to be included in manpacks or installed in every land-based tactical vehicle owned by the DND. The proposed systems are as follows:

1. High-powered and low-powered VHF radios for vehicle and manpack use, featuring embedded cryptography and frequency hopping.
2. Very low-powered hand-held VHF radio, featuring embedded cryptography.
3. Airborne HF radio for manpack (parachutist) use, featuring longer- range coverage and secure voice capability.
4. UHF AM radios for vehicle and manpack use for air-to-ground-to-air communication.
5. Hand-held data device to attach to B or D or low-powered SSB HF manpack radio (AN/PRC 515) currently in use.
6. Tactical cellular mobile phone as a back up for voice and data communication, working into the ex isting land tactical area communication system.
7. Command Post intercom, enabling communications within command posts.
8. Vehicular intercoms, providing voice communications between, and radio access to, tactical vehicle crews.
9. Local area network/local distribution network for internal and external voice and data communication at field headquarters.
10. Adaptive HF and satellite communication systems employing assorted transmitters and receivers to provide long range communications.
11. Portable data terminal for vehicular use.
12. Military standard facsimile machines for vehicular use.

The actual quantities for each system will not be known until the proposals are reviewed. The seven bidders have until April 27/90 to reply to the RFP. The prime contractor will be selected by June 91, and the first delivery is expected by June 93. The deliveries will be spread over the next 6 to 8 years.

I only hope that by the time the DND starts getting their new radios, our scanners will have the capability of listening in, but I strongly doubt that it will happen. To wrap up the column, I'd like to pass along some information presented by CellNet Canada at the recent Canadian Business Telecommunications Alliance conference. Steve Smith, vice president of CellNet, reported that presently there are an estimated 375,000 pagers, 500,000 mobile radios, 670,000 specialized mobile radios (SMR), and 320,000 cellular phones in service in Canada. It's rather awesome when you stop to think about it. Until next month, best wishes everybody.

COASTAL and INLAND WATERWAYS

This column is for VHF-FM band and related HF frequencies, information, articles, and questions that relate to coastal and inland waterways radio communication. This includes private, commercial, and Coast Guard to civilian vessel communications. It also includes private business and government frequencies that depend on or are related to the activities of surface craft, though these frequencies may also go in the Commercial Communications, Below 30 MHz, and Federal Government and Military columns as appropriate. Harbor Patrol and firefighting frequencies are welcome here and in the Public Safety columns. Coast Guard freqs other than those used to communicate with civilian vessels must go in the Federal Government and Military column.

Emmett L. Baxter, Jr., 4122 Granby St., Norfolk, VA 23504

Hello and welcome to your February 1990 Coastal and Inland Waters column.

Our first report comes in from (Billy-SC-043). His report is as follows.

"I have noted the following marine frequencies on Lake Murray a 50,000 acre lake with 525 miles of shoreline.

156.800 Mhz.	Channel 16	156.425 Mhz.	Channel 68
156.475 "	" 69	156.525 "	" 70
156.575 "	" 71	156.925 "	" 78
156.450 "	" 09		

Also the S.C. Wildlife & Marine Resources Commission, and Richland County E.M.S. are monitoring Channel 16 (156.800)."

Our next report is a list of FM Public Coast Stations for Maryland, Virginia and North Carolina.

MARYLAND:

Baltimore Marine Operator	- KGD-518 - Ch. 25 - 161.850
	- KGD-518 - Ch. 26 - 161.900
Cambridge Marine Operator	- KRS-907 - Ch. 28 - 162.000
Harwood Marine Operator	- WHX-760 - Ch. 87 - 161.975
Ocean City Marine Operator	- KSK-223 - Ch. 26 - 161.900
Point Lookout Marine Operator	- KAQ-383 - Ch. 26 - 161.900
Prince Frederick Marine Operator	- KSK-209 - Ch. 27 - 161.950

VIRGINIA:

Norfolk Marine Operator	- KIC-631 - Ch. 25 - 161.850
	Ch. 26 - 161.900
	Ch. 27 - 161.950
	Ch. 87 - 161.975
	- WHU-746 - Ch. 85 - 161.875
	- WHV-240 - Ch. 87 - 161.975

NORTH CAROLINA:

Elizabeth City Marine Operator	- KXE-293 - Ch. 24 - 161.800
Morehead City Marine Operator	- KRS-910 - Ch. 28 - 162.000
Wilmington Marine Operator	- KFT-301 - Ch. 26 - 161.900

VFH-FM Marine Public Coast Station Frequencies

Ch. 24 - (161.800)	Shore - (157.200)	Ship
25 - (161.850)	" - (157.250)	"
26 - (161.900)	" - (157.300)	"
27 - (161.950)	" - (157.350)	"
28 - (162.000)	" - (157.400)	"
84 - (161.825)	" - (157.225)	"
85 - (161.875)	" - (157.275)	"
86 - (161.925)	" - (157.325)	"
87 - (161.975)	" - (157.375)	"

Our next report comes from our FCC Editor and contains current FCC actions concerning VHF-FM Marine Band Frequencies.

McCaw Communications has applied to the FCC to discontinue its Maritime Mobile Public Coast Station KTD-563, Venice,Florida. The FCC granted McCaws request and KTD-563 will be allowed to discontinue its service to ships and boats.

Professional Communications has applied to the FCC to discontinue its Maritime Mobile Public Coast Station WXY-934, Ashtabula,Ohio. The FCC granted Professional Communications request and WXY-934 will be allowed to discontinue ite service to ships and boats.

This time of year the best listening will be with either commercial operations or military operations. Be sure when listening to commercial operations that you listen to the business channels also and see if the maritime operations also use other company frequencies. Here in my area we have a company called Lone Star-Tarmack. It is a

concrete company and uses barges and tugs to bring in the materials that they make the concrete out of. These tugs use regular maritime frequencies along with company channels when they are near enough to their destination.Lots of things are heard on the company channels that are not heard on the maritime channels. Try it.

Well thats it for this month - short huh!!!!!!!! More reports would have made this months column longer - send in any info....

COMMERCIAL COMMUNICATIONS (and Municipal Utility Companies)

This column is for reporting frequency and radio system information for the following commercial communications: businesses, forest products, petroleum industry, special industrial, manufacturers, motion picture industry, security (private patrol, detective agencies, campus security & police, amusement park & stadium security, shopping center & mall security, plant/business/hotel security, etc.), General Mobile Radio Service (GMRS), mobile phone/RCC & paging, trucking firms, bus lines, taxi cabs, tow trucks, utility companies (private & municipal water, power, electric, gas, telephone, etc.) and all school & college related frequencies.

Send monitoring information to:
Cliff Polkinghorn, 286 Greenhouse, #216, San Leandro, CA 94579

Welcome to this months edition of Commercial Communications. We have a few contributions to pass on to you.

I first have a request--- will my old friend RON (who recently moved to St. Louis) please drop me a line at his earliest convenience. THANKS

Now on to this months column.

From Don CASF 024 FROM THE MT. HOME A.F.B. AREA

151.712	ARROW AVIATION (old freq.)
151.712	SILVER SAGE CABLE TV (old freq.)
450.350	KCBI ch 2 desk (Boise)
452.100	ID POWER CO. (TX AT BOISE)
464.175	ANDY'S AIR SERVICE
464.175	ARROW AVIATION
464.350	SILVER SAGE CABLE TV
464.350	LES SCHWAB TIRES
464.450	VALLEY TIRE
464.650	BIG O TIRES
464.650	LEOS TOWING SERVICE

From David KS 052 (via Kansas A.E. Steve Lester)
**WICHITA SECURITY "CONTRACT AND CORPORATE"
WICHITA KANSAS AREA

462.375	BEECH AIRCRAFT CORP. SECURITY
461.075	BOEING EMPLOYEES ASSOCIATION
467.875	BOEING EMPLOYEES ASSOCIATION
154.250	BOEING MILITARY AIRCRAFT CORP. FIRE/SECURITY
154.295	BOEING MILITARY AIRCRAFT CORP. FIRE/SECURITY
462.325	CESSNA WALLACE CORP. SECURITY
463.800	HOLIDAY INN PLAZA DOME SECURITY
153.110	KOCH INDUSTRIES SECURITY
462.400	LEARJET CORP. SECURITY
461.450	ST. FRANCIS HOSPITAL SECURITY
453.450	BOARD OF EDUCATION U.S.D. 259 SECURITY
453.150	BOARD OF EDUCATION U.S.D. 259 SECURITY
168.525	VETERANS ADMINISTRATION HOSPITAL SECURITY
170.125	VETERANS ADMINISTRATION HOSPITAL SECURITY
463.600	WESLEY HCA HOSPITAL SECURITY
463.450	WARFIELD SECURITY
463.950	TOTAL SECURITY
464.950	SENTINAL SECURITY

FROM BOB WL-267
CHICAGO AREA BUSINESS

152.300	AURORA DELUXE CAB CO.
157.560	AURORA DELUXE CAB CO.
462.550	GMRS--BLOCK. IRA
462.600	GMRS--CANNONBALL MESSENGER
35.140	CHAMPION RACING
151.625	CIRCUS VARGAS
464.650	CITY OF CHILDREN
464.925	FOX RIDGE STONE COMPANY
154.570	HARDEES (at LOUIS JOLIET MALL) RESTURANT
859.8125	L.J. DODD CONSTRUCTION
154.570	MC DONALDS CORP.
462.700	GMRS--METRO RADIO GROUP
451.225	NORTHERN ILLINOIS GAS
463.475	SHANK & SONS PLUMBING
154.570	TACO BELL
462.700	GMRS--THORNE ELECTRICAL SUPPLY
450.2875	TRAFFIC RADIO--SHADOW RADIO
464.650	TRI-WAY PLUMBING & IRRIGATION
463.200	U.S. MESSENGER
171.975	U.S. POSTAL SERVICE
153.005	WENDORF CONSTRUCTION

FROM JACK GREEN CAOR 333
SOUTH ORANGE COUNTY AREA

154.570/30.84	TACO BELL PORTOLA PLAZA. MISSION VIEJO
154.600/35.02	MC DONALDS (SAME AS ABOVE)
154.570/30.84	TACO BELL LOS ALISOS DR. MISSION VIEJO
154.600/35.02	MC DONALDS LAKE FOREST
33.14	EXXON STATION PORTOLA PLAZA
154.600	MC DONALDS SOUTH MISSION VIEJO
457.570	JACK-IN-THE-BOX EL TORO. SAN JUAN CAP. SAN CLEMENTE
154.570	MC DONALDS IRVINE
154.600/35.02	MC DONALDS SAN CLEMENTE. DANA POINT
154.600	PRICE CLUB CAPISTRANO BEACH
461.475	FARINO CONSTRUCTION EL TORO
461.475	GRO-RITE TOPSOIL SERVICE
461.575	CAPISTRANO LANDSCAPE
461.575	L.M. & P AUTO PARTS CAPISTRANO BEACH
461.575	D & R MAINTENANCE TRABUCO CANYON
461.575	MEDICAL GAS INSTALLER HUNTINGTON BEACH
463.600	COAST POOL & SPA SAN JUAN CAPISTRANO
463.600	POOL & SPA MART (SAME AS ABOVE)
471.6875	K. WARE CONCRETE PUMP DANA POINT
862.0125	GALAXIE PLASTER IRVINE
863.0125	" " "
864.0125	" " "
865.0125	" " "

THATS IT FOR THIS MONTH

SEE YOU ALL NEXT TIME

Are You Renewing?
Are You Changing Your Address?

If you are renewing your RCMA membership, please return the Renewal Notice Card you receive in the mail. It's the best way to ensure uninterrupted delivery of your newsletter. If you lose the card, be sure to write your membership number on your check or money order.

If you are moving, please let us know your new address before the end of the month prior to the move. Otherwise, your Post Office will return the issue to our Anaheim P. O. Box—a process which has taken as long as three months. The result is that RCMA will pay 30 cents per notice, you will miss at least one issue, and you'll have to pay for replacement issues.

A reminder concerning a `late' newsletter: We do not replace lost issues until the 20th of the month of the actual cover date. So, please wait to write or call until that time.

contact info wanted

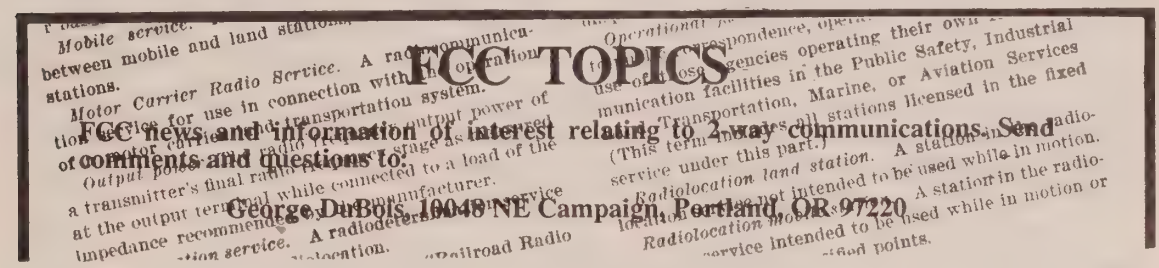
This column has two purposes: to help members contact each other, and to help members obtain directly from one another information on various subjects related to two-way communications monitoring. If you would like to meet, converse, or correspond with other members by telephone, letter, or cassette, this column is the place to state your interest. Remember—those who respond will do so directly, so be sure to provide your phone number, the best time to be called, and/or your address. Write to:

Scott Mattson, 2820 Bridge Ave, Point Pleasant, NJ 08742

Requests for copyrighted material or information considered 'sensitive' by RCMA will not be printed in this column.

CONTACT WANTED: I am looking to correspond with anyone in or around the Seattle/King County, Washington area. Am interested in exchanging frequencies and other related information.
MIKE BENEDETTI (WA-106) 5818 26th Avenue NW, Seattle, WA 98107

INFO WANTED: Information on frequencies and codes for the following New York State counties; Tioga, Steuben, Chemung, Schuyler, and Tompkins. Will trade info for same.
JIM OTIS (NY-152) J & J Trailer Park F-8, Fulton, NY 13069

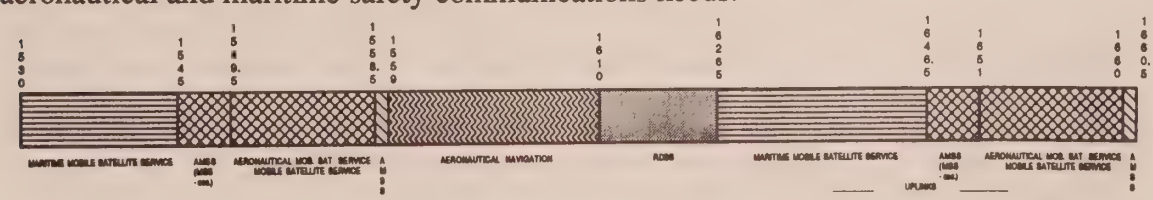


FCC TOPICS

FCC news and information of interest relating to 2-way communications. Send comments and questions to:

George DuBois, 19048 NE Campaign, Portland, OR 97220

The FCC has released a Memorandum Opinion and Order denying a Petition for Reconsideration of its allocation for Mobile Satellite use at 1.5 GHz. A number of aviation interests, including ARINC, the Air Transport Association and the Airline Pilots Association, had asked that the entire 10 MHz (two 5 MHz bands, one for uplink and one for downlink) be allotted for Aeronautical Mobile Satellite Service (AMSS). The Commission allocated only 1 MHz (two 500 kHz bands) for AMSS exclusively, with the remaining two 4.5 MHz bands available for AMSS on a co-equal, shared basis with Mobile Satellite Service. Mobile Satellite Service includes the Land Mobile Satellite Service, originally proposed for 800 MHz. An additional two 9 MHz bands are available on a shared basis. AMSS would have priority in these bands, though. The petitioners had asked that the FCC amend its rules so that the allocations at 1.5 GHz would be in accordance with those adopted at the 1987 World Administrative Radio Conference on Mobile Services. The 1987 Mobile-WARC allocated two paired 10 MHz bands for aeronautical satellite use and also allowed their use for Public correspondence (passenger telephone calls). This 20 MHz was actually a reduction in spectrum, since 8 MHz was reallocated for Land Mobile Satellite use. The U.S. indicated it would not accept these decisions and would use the bands in the way most appropriate to satisfy aeronautical and maritime safety communications needs.



The FCC continues to believe that the present allocations will best serve the public interest. The WARC allocation plan allots blocks of frequencies for separate land mobile, maritime and aeronautical services, while the Commissions plan allows shared use of the same spectrum and should be more responsive to the needs of each service. A study by ARINC showed that under normal conditions 6 MHz of spectrum would be

required for AMSS service and that only under rare conditions, such as widespread adverse weather conditions, would additional spectrum be needed. This can be met in the shared AMSS/MSS spectrum, in which AMSS would have priority. This actually allows the use of more spectrum than under the WARC plan, on a shared basis. Also, 18 MHz will be available for shared use with the Mobile Satellite Service, which is considered to be the minimum required for a viable Land Mobile Satellite Service. Through the use of interleaved channels, spot antenna patterns, opposite polarity and so forth, the Commission believes that sharing between the two services is entirely practical. The Commission also reiterated that the AMSS band may be used for safety and operational communications only and Public radiotelephone service for passengers will not be allowed, especially since service is available in bands as 454 and 894 MHZ.
In a related matter, the Commission has granted a construction permit to the American Mobile Satellite Corporation to launch and operate a satellite system in the Mobile Satellite Service. The system will provide land mobile, maritime and aeronautical common carrier service in the band at 1549.5 to 1558.5 MHz, which is shared with the Aeronautical Mobile Satellite Service and at 1545 to 1549.5 MHz, which is available on a secondary basis to AMSS. (Uplink frequencies are 101.5 MHz higher.) When the Commission allocated spectrum for MSS, they decided that only one system would be licensed and that system would be a consortium of the qualified applicants. They concluded this because, with the high cost of implementing a MSS system, multiple systems would not be economically viable. Plus the facts that it is not presently feasible to operate identical satellite services on the same frequencies, nor would priority coordination with the Aeronautical Mobile Satellite Service be practical. The companies making up the consortium are Hughes Communications, MCCA American, McCaw, Mobile Satellite Corp., N. Amer. Mobile Sat. Corp., Sat. Mob. Telephone Co., Skylink and American Mob. Sat. Corp. The three satellites, to be launched by 1994, will be located at 62, 101 and 139 degrees West Longitude.

The Commission has extended by two years the deadline by which all aircraft transmitters must meet the revised frequency tolerance adopted in 1984. The old standard, 50 parts per million, applied to radios installed before January, 1985 and allowed their continued use in the same installation until January 1990. The tighter frequency tolerance (30 parts per million) was approved by the 1979 WARC and adopted by the FCC in the early 80's, along with the implementation of 25 kHz channel spacing. Since a majority of the non-conforming radios are in private, general aviation aircraft, their continued use should present minimal interference. Requiring their replacement will result in a financial hardship in many cases. Many of the radios are nearing the end of their useful life and the cost of modification would exceed their value. The deadline for conformance with the new standard will be extended until January 1992, at which time the impact of continued exemption will be examined.

This month I'll answer a few questions from the old mailbag. (I don't actually have a mailbag, but colorful writers always say that, don't they?) I usually answer letters personally (eventually) and only print those of extraordinary interest to the members. But I received one letter with no return address a while back, and there's a shortage of material for this months column, so what the heck.

One question dealt with how frequencies are assigned. I think I partially answered this in my November column (or was it December?) where I discussed frequency coordination committees. At 800 MHz, the trunked SMRS frequencies are usually assigned by the Commission, using a strict 70 mile separation between systems (105 miles in some locations). With the conventional channels at 800 MHz, it is the applicants option, he may use a coordination committee or allow the FCC to select the frequency. Common Carriers are a little different in that when an application is made, it is put on public notice and other parties have a given period in which to file competing applications. A comparative hearing is held to determine the most qualified applicant, but nowdays, with most of the paging and mobile telephone frequencies, lotteries are held to determine the licensee. (This is because it is assumed that all the applicants that make it to that stage are otherwise qualified. A comparative hearing would serve no purpose,

besides waste time and money.)

Interservice sharing - if an applicant is unable to find a local channel in his own service (say the Fire Radio Service), he can then ask that an unused frequency in another of the Public Safety Radio services (say the Highway Maintenance Radio Service) be assigned. The frequency coordinators for **both** services must approve the request. The same procedure applies to the Industrial services (Business, Forest Products, Railroad, etc.). But not **between** the two groups of services. A Business Radio Service applicant can't apply for a Police Radio Service channel!

Will the FCC offices still have microfiche available? I can't get a straight answer. The last thing I was told a couple of years ago was that the fiche would be available for years to come and would presumably be available for public use in the Field Offices. I inquired again recently and have not received a reply. Unless their on-line computer system is made available for public use in the offices (such as in L.A., I'm told), the fiche is still the only way the license files can be made available to the public. But, by the same token, if they consider their duplicating contractor in Washington as meeting this obligation, then that's that!

Some questions on the ECPA. Does it contains any restrictions on revealing intercepted communications? Yes. Title 18 always contained a prohibition against interception of "wire or oral communication". The word "electronic" was added to this provision. Also, the language was changed from "willful" to "intentional" interception, to distinguish between intentional and accidental monitoring.

Are phase-inversion descramblers illegal? Actually, I had a couple of questions about this but I seem to have lost the other letter. Geez, I've got to clean this place up. Title 18, Chapter 119, Section 2510 prohibits intercepting those communications "not readily accessible to the public" including (A) those that are scrambled or encrypted or (B) those transmitted using modulation techniques whose essential parameters are withheld from the public". Well, (A) only applies to communications that are digitally encrypted. Even simple digital transmissions don't qualify. They must be digitally **encrypted**. The Digital Encryption Standard (DES) is **specifically** mentioned as an example. The second prohibition applies to spread spectrum transmissions. Let me quote from both the Senate and House reports on the ECPA: "This paragraph (B) refers to spread spectrum radio communications". I hope that was clear enough. Phase inversion scrambling does not use a modulation technique whose parameters are withheld from the public! It uses regular old 16F3 modulation, or in post-WARC terms, 16K00F3E. This is the same modulation technique used by your local water district, plumber or the National Weather Service! The confusion appears to originate with a few individuals who seem to interpret it to mean that the frequency of the injection tone used with phase inversion is not made public. Well, that doesn't matter a bit. If they elect to mix their audio with an audio tone (to invert the audio frequencies), or talk backwards, or whistle the theme from Dr. Zhivago, what they do to the **intelligence** that they are modulating their signal with is of no consequence. It's still plain old analog FM modulation! Is is legal to own a descrambler. Yes! Let's not panic here. Where can you get one? I don't know. No one seems to offer them anymore. My guess is because of declining sales. I mean, who uses them anymore? You can make one for a few bucks, there's nothing to them.

Why does the Fire Radio Service have channels reserved for low power use (33.42, 46.3, 153.83), but not the Police Radio Service? Well, remember that the modern handheld transceiver has only come into extensive use in the last 10, 15 years. Most of the rules for the present radio services were written in the late 1950's. At that time the Fire Radio Service was one that had a definite need for on-scene communications at the scene of an event (a fire, for example!), even though "portables" in the old days were the size of a lunchbox. Handheld radios are now in common use, but remember that there is no prohibition against using them on **any** frequency, there's just really no need to set aside channels for their exclusive use.

Any chance that 154.555 and 154.585 could become Police Nationwide portable channels? None. I hadn't heard of this, it was probably a petition submitted some years ago that never made it past that stage, which would have allowed use on a low power basis of the space between the 25 kHz-spaced Business Radio Service channels in that

area. Since then, of course, 154.5025, 154.5275 and 154.5525 were reassigned for narrow-bandwidth (ACSB) use for repeater inputs in the Business Radio Service and 154.585 is a Petroleum Radio Service frequency.

Well, I hope I answered everyone who's written lately. If not, write again or just wait, because your letter will eventually work its way to the top of a stack of papers and I'll find it again!

FEDERAL GOVERNMENT and MILITARY

Send non-aircraft-related frequency information for Army, Navy, Marine, Air Force, Coast Guard, and non-military Federal Government radio systems, and related questions to:

Dennis Biagioli, 1352 Shagbark Court, Carol Stream, IL 60188

Military aircraft frequencies and aircraft support-related frequencies should go to the Aircraft column unless they improve the overall submission to this column. HF SSB frequencies may be sent to this column if they benefit the submission; otherwise, they should go to the Below 30 MHz column. To improve continuity of fire communications, you may send USFS, OES, and BLM firefighting frequencies to Public Safety. Sensitive frequencies will not be published.

Lack of a column last month was not Denny's fault; the mishap happened at this end. My apologies—to all the members who look forward to this column and certainly to Denny! — Editor

An excellent list of frequencies of the National Aeronautics and Space Administration (NASA) will provide our first column for the new year. The material originated from a Florida friend of RCMA, STEVE, and has come to us thru our General Editor, Capt. Bill Mauldin (FL-137). And this collective data appears in this column at his direction.

NATIONAL AERONAITICS AND SPACE ADMINISTRATION

38.4500","FMn",0,"NASA-Edwards AFB Air-to-ground HF control"
38.6500","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
49.8300","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
120.7000","FMn",0,"NASA-Edwards AFB VHF Tower"
121.8000","FMn",0,"NASA-Edwards AFB Lakebed traffic control"
121.8000","FMn",0,"NASA-Edwards AFB Edwards VHF ground control"
122.8500","FMn",0,"NASA-Marshall SFC Huntsville AL"
122.8500","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
138.0500","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
138.0750","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
138.1750","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
138.2500","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
138.4000","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
138.4500","AM",0,"NASA-AF shared w/CCAFS"
139.8000","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
141.1000","FMn",0,"NASA-Edwards AFB (Army aviation)"
141.5500","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
148.0500","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
148.4550","FMn",0,"AF-NASA Net 112 - SRB recovery ops/crawler ops - Kennedy SFC FL"
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148.6750","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
148.9000","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
149.1500","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
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150.1500","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
150.2800","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
155.2800","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
162.0125","FMn",0,"AF-NASA Net 306 - Marine operations (barge supply) Kennedy SFC Fl"
162.0250","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
162.1250","FMn",0,"NASA-Marshall SFC Huntsville AL"

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162.6100","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
162.6125","FMn",0,"AF-NASA Net 104 Launch support ops 'Alpha Control'"
162.6250","FMn",0,"Edwards AFB - purge VHF network"
163.5375","FMn",0,"AF-NASA Net 108 PAO (Paging) - Hurricane operations Kennedy SFC Fl"
164.0500","FMn",0,"NASA-Johnson SFC (FAA) Houston TX"
164.1000","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
164.1000","FMn",0,"NASA-Edwards AFB  Convoy command VHF network"
164.1750","FMn",0,"NASA-Goddard SFC"
164.1750","FMn",0,"NASA-Marshall SFC Huntsville AL"
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164.2000","FMn",0,"NASA-Johnson SFC Houston TX"
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164.9750","FMn",0,"NASA-Marshall SFC Huntsville AL"
164850","FMn",0,"NASA-Johnson SFC Houston TX"
165.1875","FMn",0,"AF-NASA Net 102 Telemetrics/MEAS - Kennedy SFC Fl"
165.3250","FMn",0,"NASA-Marshall SFC Huntsville AL"
165.4125","FMn",0,"AF-NASA Net 110 Orbitor operations - Kennedy SFC Fl"
165.6100","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
165.6125","FMn",0,"NASA-Net 202 Telemetrics/MSBLS - Kennedy SFC Fl"
166.2250","FMn",0,"NASA-Marshall SFC Huntsville AL"
166.2250","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
167.8250","FMn",0,"NASA-Goddard SFC-Greenbelt MD"
167.8500","FMn",0,"NASA-DOE Nuclear Weapons - Kennedy SFC Fl"
167.8750","FMn",0,"NASA-Marshall SFC Huntsville AL"
167.9250","FMn",0,"NASA-Goddard SFC - Greenbelt MD"
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168.0000","FMn",0,"NASA-Johnson SFC maintenance - Houston TX"
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168.0000","FMn",0,"Edwards AFB - cooling VHF netwoek"
168.4500","FMn",0,"NASA-Johnson SFC Houston TX"
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169.6000","FMn",0,"NASA-Edwards AFB - TV direction from Johnson SFC"
170.0250","FMn",0,"NASA-Goddard SFC - Greenbelt MD"
170.1000","FMn",0,"NASA-Johnson SFC Houston TX"
170.1000","FMn",0,"NASA-Marshall SFC Huntsville AL"
170.1500","FMn",0,"AF-NASA Net 107 Base comms - Kennedy SFC Fl"
170.1750","FMn",0,"AF-NASA Net 206 GSA operations/truck & rail support - Kennedy SFC Fl"
170.2000","FMn",0,"NASA-Marshall SFC Huntsville AL"
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171.0000","FMn",0,"NASA-Marshall SFC Huntsville AL"
171.0000","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
171.0000","FMn",0,"AF-NASA Net 101 Base utilities - Kennedy SFC Fl"
171.1500","FMn",0,"NASA-Goddard SFC - Greenbelt MD"
171.1500","FMn",0,"NASA-Johnson SFC - Shuttle mission audio from JSC"
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171.2625","FMn",0,"AF-NASA Net 408 PAO TV Coordination - Kennedy SFC FL"
172.2250","FMn",0,"NASA-Marshall SFC Huntsville AL"
173.0250","FMn",0,"NASA-Marshall SFC Huntsville AL"
173.1750","FMn",0,"AF-NASA Net 201 General Maintenance Fuels - 'NOVA' - Kennedy SFC Fl"
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173.1750","FMn",0,"AF-NASA Net 203"
173.4350","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
173.4375","FMn",0,"AF-NASA Net 117 Hospital/Civil Defense Net - Kennedy SFC Fl"
173.5375","FMn",0,"AF-NASA Net 111 Loan pool - Kennedy SFC Fl"
173.5625","FMn",0,"AF-NASA Net 116 Fire & Rescue Channel 1 - Kennedy SFC Fl"
173.6100","FMn",0,"NASA-Marshall SFC Huntsville AL"
173.6600","FMn",0,"NASA-Goddard SFC - Greenbelt MD"
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173.6625","FMn",0,"AF-NASA Net 105 Primary pad operations - Kennedy SFC Fl"
173.6850","FMn",0,"NASA-Goddard SFC - Greenbelt MD"
173.6850","FMn",0,"NASA-Johnson SFC Houston TX"
173.6850","FMn",0,"NASA-Marshall SFC Huntsville AL"
173.6875","FMn",0,"AF-NASA Net 103 Security principal - channel 2 Kennedy SFC FL"
173.7850","FMn",0,"NASA-Marshall SFC Huntsville AL"
173.7875","FMn",0,"AF-NASA Net 216 Fire & Rescue Tactical Channel 2 - Kennedy SFC Fl"
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304.0000","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
304.0000","FMn",0,"NASA-Edwards AFB (Edwards command post - Conform)"
308.7000","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
311.0000","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
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314.6000","FMn",0,"NASA-Johnson SFC Houston TX"
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318.1000","FMn",0,"NASA-Edwards AFB - Edwards UHF tower"
319.6000","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
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325.9000","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
337.0000","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
339.9000","FMn",0,"NASA-Edwards AFB - Army Aviation"
341.6000","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
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371.7000","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
372.2000","FMn",0,"NASA-Edwards AFB - pilot to dispatcher"
375.2000","FMn",0,"NASA-Edwards AFB  PMSV: Metro weather"
378.1000","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
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390.1000","FMn",0,"NASA-Edwards AFB - Edwards UHF ground control"
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398.1000","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
407.3250","FMn",0,"AF-NASA UHF-1 Convoy command launch complex (LC) 39 ops pool - Kennedy SFC Fl"
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408.1500","FMn",0,"NASA-Goddard SFC - Greenbelt MD"
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408.1750","FMn",0,"AF-NASA UHF-4 VAB crane ops (LC-39 ops pool) - Kennedy SFC FL"
409.0500","FMn",0,"AF-NASA (UHF-6) VAB crane ops - LC-39 ops pool - Kennedy SFC FL"
409.1250","FMn",0,"AF-NASA UHF-7 LC-39 ops pool Kennedy SFC FL"
409.1750","FMn",0,"AF-NASA UHF-8 Convoy cooling control - LC-39 ops pool - Kennedy SFC FL"
412.0000","FMn",0,"NASA-Goddard SFC - Greenbelt MD"
412.8250","FMn",0,"AF - UHF-1 Industrial area pool (O & C) - Kennedy SFC FL"
412.9500","FMn",0,"AF UHF-2 mobile cranes/rigs Kennedy SFC FL"
413.0250","FMn",0,"AF UHF-3 industrial area pool (O & C) - Kennedy SFc FL"
413.0750","FMn",0,"AF-CC501 Convoy cargo ops - Kennedy SFC FL"
413.1250","FMn",0,"AF Kennedy SFC FL"
413.1500","FMn",0,"AF UHF-4 industiral area pool (O & C) - Kennedy SFc FL"
413.2500","FMn",0,"AF UHF-5 Industrial area pool O & C - Kennedy SFC Fl"
413.3250","FMn",0,"AF - Kennedy SFC FL"
413.3750","FMn",0,"AF UHF-6 Industrial Area pool - Kennedy SFC FL"
413.4500","FMn",0,"NASA-Dryden Research Cntr - Edwards AFB Calif"
413.5250","FMn",0,"AF UHF-7 Industrial Area pool - O & C - Kennedy SFC FL"
413.5500","FMn",0,"AF UHF-8 Iundustrial Area Pool O & C - Kennedy SFC FL"
480.8000","FMn",0,"AF-NASA UHF-5 (LC-39 ops pool) - Kennedy SFC Fl"
916.0000","FMn",0,"AF-NASA Crawler moves - Kennedy SFC FL"
929.0000","FMn",0,"AF-NASA Crawler moves - Kennedy SFC FL"
939.0000","FMn",0,"AF-NASA Crawler moves - Kennedy SFC FL"
```

Our deepest thanks to both Steve and Bill for sharing this interesting and informative data with all of us and getting our year off to such a fine start. We hope it will inspire more of the readers to compile and share similar listings of their area of interest and expertise. Until next time...

73 Denny

INTERNATIONAL

This column is for reporting 2-way communications frequencies above 30 MHz, radio system details, monitoring experiences, and any other information relating to monitoring in countries other than the United States and Canada. Send to:

Rickey Stein, 456 Barrymore Place, North Brunswick, NJ 08902

Again from the Netherlands comes information about West Germany. Here is the channelization for the West German Amateur Repeaters:

Channel	Base	Mobile	Channel	Base	Mobile
R-0	145.600	145.000	R-1	145.625	145.025
Cuxhaven		DB0XA	Bamberg		DB0UB
Feldberg		DB0UF	Bremen		DB0WU
Hagen		DB0UH	Detmold		DB0WT
Holledau		DB0QF	Duiburg		DB0WW
Konstanz		DB0QB	Friedrichshafen		DB0WV
Luchow		DB0ZL	Heidelberg		DB0ZH
Ludwigsburg		DB0XY	Merzig		DB0XS
Northeim		DB0YN	Neukolln [West Berlin]		DB0YL
Ochsenkopf		DB0ZB	Rendsburg		DB0ZA
Saarbrucken		DB0SR	Winterberg		DB0WB
Spandau [West Berlin]		DB0SP			
R-2	145.650	145.050	R-3	145.675	145.075
Bremerhaven		DB0WC	Cham		DB0YC
Essen		DB0WE	Flensburg		DB0SH
Feldberg		DB0UF	Goslar		DB0WS
Hoher Meissner		DB0XM	Hochenschwand		DB0YH
Lubbecke		DB0WY	Idar-Oberstein		DB0SD
Nurnberg		DB0UN	Karlsruhe		DB0UK
Ochsenwang		DB0WN	Nordhelle		DB0VR
Pforzheim		DB0UP	Oldenburg		DB0UO
Pirmasens		DB0VP	Ulm		DB0TF
Regensburg		DB0TK	Wurzburg		DB0WZ
Siegen		DB0YS			
R-4	145.700	145.100	R-5	145.725	145.125
Bonn		DB0SB	Bocksberg		DB0XY
Coburg		DB0UC	Koblenz		DB0ZK
Deggendorf		DB0SL	Meppen		DB0SM
Hohenkirchen		DB0WX	Zugspitze		DB0SU
Kalmit		DB0XK			
Munster		DB0WM			
Rimberg		DB0XU			
Sandkopf		DB0FB			
Uelzen		DB0RH			
West erlin		DB0BF			
R-6	145.750	145.150	R-7	145.775	145.175
Bergeim		DB0XO	Arzberg		DB0YA
Frankfort		DB0VF	Bentheim		DB0VQ
Fulda		DB0UF	Boellstein		DB0VB
Funkturm [West Berlin]		DB0WF	Bredstedt		DB0XN
Gottingen		DB0YJ	Elm		DB0XC
Hamburg		DB0XH	Erbeskopf		DB0UT
Hannover		DB0WH	Goppingen		DB0WG
Homburg		DB0YK	Greding		DB0XG
Kaiserstuhl		DB0ZF	Kassel		DB0XE
Konstanz		DB0WK	Koln		DB0VK
Muchen		DB0ZM	Lahr		DB0WL
Osnabruck		DB0XH			
Stuttgart		DB0WR			
R-8	145.800	145.200	R-70	438.650	431.050
Aachen		DB0WA	Bad Tolz		DB0YU
Bad Hersfeld		DB0YB	Dortmund		DB0DS
Baderstrasse		DB0XB	Heilbronn		DB0SS

Deister		DB0WD	Luchow		DB0UZ
Dortmund		DB0ZR	Nurnberg		DB0VN
Grab		DB0ZZ	Oldenburg		DB0OO
Leer		DB0WO	Sarbrucken		DB0PN
Lorrach		DB0XR	Wetzlar		DB0UJ
Melibokus		DB0VD	Wiesbaden		DB0VA
Weiden		DB0ZW			
R-71	438.675	431.075	R-72	438.700	431.100
Augsburn		DB0AO	Duisburg		DB0UD
Bergish Gladback		DB0GL	Freiburg		DB0SZ
Braunshweig		DB0OI	Gottingen		DB0YG
Bruchsal		DB0RB	Hamburg		DB0XI
Gronau		DB0EG	Konstanz		DB0WJ
Hassberge		DB0NU	Merzig		DB0XT
Passau		DB0BW	Rosenheim		DB0TR
		Stuttgart	DB0WP		
R-73	438.725	431.125	R-74	438.750	431.150
Bocksberg		DB0CY	Bad Pyrmont		DB0YP
Donau-Bussen		DB0RZ	Bad Segeberg		DB0DI
Donnersberg		DB0ND	Erlangen		DB0TP
Siegen		DB0AK	Feldberg		DB0VE
		Hagen	DB0ZV		
		Nurenberg	DB0TP		
		Weserbergland			DB0YP
		Wilhelmshaven			DB0RW
		Winterberg	DB0ZI		
R-75	438.775	431.175	R-76	438.800	431.200
Esslingen		DB0BO	Bielefeld		DB0TB
Munchen		DB0NJ	Crailshem		DB0TB
Osnabruck		DB0CO	Dusseldorf		DB0SJ
Renchtal		DB0TQ	Elm		DB0XX
Rotenburg		DB0QL	Freising		DB0TC
Wurselen		DB0QA	Melibokus		DB0UU
		Ochsenkopf	DB0VO		
		Stade	DB0XJ		
R-77	438.825	431.225	R-78	438.850	431.250
Biedenkopf		DB0QN	Erbeskopf		DB0VV
Bochen		DB0BS	Hamburg		DB0WI
Bremen		DB0OZ	Kassel		DB0TM
Eberbach		DB0RE	Kaiserstuhl		DB0S
Flensburg		DB0XZ	Wesel		DB0NW
Saarbrucken		DB0TL	Wiehengebirge		DB0WQ
		Wurzburg	DB0VY		
		Zugspitze	DB0ZS		
R-79	438.875	431.275	R-80	438.900	431.300
Amberg		DB0CJ	Bamberg		DB0VT
Arnsberger Wald		DB0QH	Boppard		DB0SO
Bremen		DB0QD	Feldberg		DB0VS
Kleinerheckberg		DB0RL	Goslar		DB0UW
Pfinzgau		DB0XQ	Hohe Mark		DB0UR
Schluchtern		DB0NQ	Lubeck		DB0XL
			Regensberg		DB0RP
			Ulm		DB0TE

To be continued . . . until next month

RCMA has a Telephone Number

The RCMA telephone number is (714)545-9551. It's `manned' by an answering machine, and while it's been established for RCMA members, its use is limited. You may leave a message concerning delivery or renewal problems; you cannot use it to request club information or order back issues. Appropriate response will be made by letter or postcard, not by telephone. Any call regarding a membership problem MUST be accompanied by your membership number.

Please remember that it is a toll call, so be sure before you dial that a written communication won't do just as well. Do not call regarding a missing newsletter before the 20th of the month of the issue in question. **Your message will be relayed to the appropriate person, but your call will not be returned.**

LOW BAND SKIP

Send reception reports relating to distant stations received in the 30-50 MHz band plus any Low Band DXing tips, comments, etc. to:

Paul Bastian (PA-267), 800 Kimberton Road, #H-4, Phoenixville, PA 19460

From ROGER WEST, MN-052, he sent a letter of some skip that he had logged on September 22. He was trying to get skip from Charleston, S.C. after Hurricane "Hugo" went thru, with no luck. Instead he picked up skipped from California on several frequency; 30.50, 33.70, 39.20, and 39.94. Roger also got the following:

```
 31.35   - Foreign Language - Weak Signal
 32.18   - Foreign Language - Weak Signal
 35.20   - Weak Signal
 35.35   - English Language - Strong Signal - Southern Accent
151.01   - Highway Department
152.0075 - Used for Medical Paging, did not recognize any of
           the units. Southern Accents
155.55   - Used in the local area by Polk County Sheriff, but
           did not recognize any of the units
155.91   - Weak Signal, but Southern Accent heard
```

Roger noted that he was using a new Radio Shack PRO-2005 to monitor the skip on. Thanks Roger for your input.

JAMES, CALA-752, of California sent a letter explaining his first experience in receiving Skip. He explained how he was listening to Calif. Highway Patrol when the next thing he knew, he was picking up strong Southern Accent. This was the tip-off that James was no longer picking up Calif. Then he heard a check for a North Carolina license plate. After some checking he found that North Carolina Highway Patrol was indeed listed on this channel.

On Sunday, Oct 22 - between 11:15 am to 1:00 pm local time, James used his PRO-31 with a Radio Shack telescoping antenna. He logged the following:

North Carolina Highway Patrol
- 42.50 - unconfirmed
- 42.60 - confirmed
- 42.62 - confirmed
- 42.64 - confirmed

South Carolina Highway Patrol
- 42.10 - confirmed
- 42.12 - unconfirmed
- 42.14 - confirmed

Thanks James for the letter. Since this is your first skip logged, hopefully you will monitor much more.

Time for an UPDATE. STEVE GIOVANIS, ASSOCIATE EDITOR-GEORGIA, sent a postcard ID'ing a skip logged by RUSS, MI-002 in June 18. The frequency of 31.14 is that of Georgia Department of Natural Resources. Thanks Steve.

Now more of RUSS, MI-002 extensive skip log:

DATE	TIME	FREQ	CALL	USER
7-03	17:41	42.12		SC Highway Patrol
	17:47	37.90		Madison Rockingham Rescue, NC
	22:15	39.16		FL Highway Patrol at Tallahassee
7-04	16:35	45.42	KPB742	FL Highway Patrol at Vero Beach
	16:44	33.88		Cy Fair VFD - Houston
	16:48	42.50		NC Highway Patrol
	16:51	42.08		SC Highway Patrol
	16:53	33.92		Crystal, ?? FD (CDT)
	16:56	33.90		Laconia, NH - Fire
	17:07	42.12		MS Highway Patrol
	17:14	39.50		LA State Police

LOW BAND SKIP continued

	17:20	42.60		NC Highway Patrol
	17:23	44.74		AR Highway Patrol
	17:29	45.42	KZR490	FL Highway Patrol at Florida City
	17:31	42.34		SC Highway Patrol
	17:32	42.12		SC Highway Patrol
	17:35	42.52		NC Highway Patrol
	18:15	42.06		SC Highway Patrol
	18:28	33.70	KCB651	Derby, CT - Fire
	18:30	44.94	KDD947	KS State Police
	18:32	42.42		TN Highway Patrol
	20:23	39.56	KAA452	Ellis Co., KS - Sheriff
	20:27	45.42	KGW698	FL Highway Patrol at Lake Butler
	20:30	45.42		"Sunflower 7 to Sunflower 9"
	20:33	39.32	KXI877	Jewell, KS - Police
	20:50	39.90	KAG291	Hitchcock Co., NE - Sheriff
	21:39	45.48		traffic from Lamar Co., MS
	21:52	37.04	KBK963	Chicot Co., AR - Sheriff
7-05	17:31	45.48		Warren, MA - Police
	17:31	46.08	KCB901	Deep River, CT - Fire
	17:32	33.70	KCE681	Rockland, ME - Fire
	17:42	39.36		French, Riviere du Loop ?
	17:46	33.70	KCF582	Thomaston, ME - Fire
	17:52	33.78	KNGE459	Bourne, MA - Fire
	17:56	45.94		French, Drummondville, ?
	17:58	39.62		French, Victorville/Arthabaska ?
	18:00	33.70		Hamden, CT - Fire
	18:05	33.82	KED485	Woodbridge, NJ - Fire
	18:07	33.82	K--603	Monroe CT - Fire ?
	18:14	44.82		?? State Police
	22:51	44.94		KS State Police
	22:52	39.90	KAO461	Madison Co., NE - Sheriff
7-07	17:03	33.82	KCB404	Ashburnham, MA - Fire
	17:09	33.78	KGW717	CT Fire Chiefs Assn.
	17:14	45.42	WNFC443	FL Highway Patrol at Miami
	17:18	33.70		Harvard, MA - Fire
	17:22	37.58		Fitchburg Gas & Electric, MA ?
	17:22	33.90	KKV431	Quinebaug Valley Emer. Comm, MA
	17:28	42.04		CT State Police
	17:31	39.02	KCA336	Stamford, CT - Police
	17:34	33.70	KNJM270	N. Branfond, CT - Fire
	17:35	39.98		Norwalk, CT - Police
	17:37	39.62		Monroe, CT - Police
	17:44	33.74	KEM734	Canton, CT - Fire
	17:47	33.48	KCA351	Duxbury, MA - Fire
	17:49	35.70		Spanish ?
	17:53	39.90		Norwich, CT - Police
	17:56	37.12		Ocean Co., NJ - Sheriff
	17:57	42.52		CT State Police
	22:42	42.34		SC Highway Patrol
	22:43	42.10		SC Highway Patrol
	22:56	42.52		NC Highway Patrol
	23:24	42.12		SC Highway Patrol

That's all for this month.

MONITORING & THE LAW

Jorge Rodriguez, 1129 Castile, Coral Gables, FL 33134

Monitoring Laws in the State that's home to Lake Woebegon

The laws of the State of Minnesota restrict monitoring of police communications by two statutes. The first of these prohibits monitoring in motor vehicles completely, without first obtaining a permit. Ham radio operators are excluded from the law so long as they have not been convicted of a violent crime. (see text below)

The second statute (Minn. Stat. 609.856) applicable to monitoring in the state provides for enhanced penalties for using a scanner during the commission of a crime.

299C.37 Police communications equipment; use, sale

Subsection 1. (a) No person other than peace officers within the state, the members of the state patrol, and persons who hold an amateur radio license issued by the Federal Communications Commission, shall equip any motor vehicle with any radio equipment or combination of equipment, capable of receiving any radio signal, message, or information from any police emergency frequency, or install, use or possess the equipment in a motor vehicle without the permission from the superintendent of the bureau [Bureau of Criminal Apprehension] upon a form prescribed by the superintendent. An amateur radio license holder is not entitled to exercise the privilege granted by this paragraph if the license holder has been convicted in this state or elsewhere of a crime of violence, as defined in section 624.712, subsection 5, unless ten years have elapsed since the person has been restored to civil rights or the sentence has expired, whichever occurs first, and during that time the person has not been convicted of any other crime of violence. For purposes of this section, "crime of violence" includes a crime in another state or jurisdiction that would have been a crime of violence if it had been committed in this state. Radio equipment installed, used, or possessed as permitted by this paragraph must be under the direct control of the license holder whenever it is used.

(b) Except as provided in paragraph (c), any person who is convicted of a violation of this subsection shall, upon conviction for the first offense, be guilty of a misdemeanor, and for the second and subsequent offenses shall be guilty of a gross misdemeanor.

(c) An amateur radio license holder who exercises the privilege granted by paragraph (a) shall carry the amateur radio license in the motor vehicle at all times and shall present the license to a peace officer on request. A violation of this paragraph is a petty misdemeanor. A second and subsequent violation is a misdemeanor.

Subsection 2. REPEALED

Subsection 3. The superintendent of the bureau shall, upon written application, issue a written permit, which shall be nontransferable, to a person, firm, or corporation showing good cause to use radio equipment capable of receiving a police emergency frequency, as a necessity, in the lawful pursuit of a business, trade, or occupation.

Subsection 4. REPEALED

MARKETPLACE

Members may advertise, free of charge, items wanted, items for sale, and items for trade that are associated with the hobby of monitor/utility/radio listening. No dealer ads will be accepted for this column. RCMA assumes no responsibility for the outcome of any transaction between members resulting from ads printed in this column.

Please Note: Ads must be submitted on Marketplace ad forms ONLY. You can obtain these by sending your request AND an SASE to RCMA, P.O. Box 542, Silverado, CA 92676. Ads received at this address by the first of the month will appear in the issue printed during the same month. You must include your membership number.

FOR SALE: Realistic PRO-2004. Very good condition, with cellular modification and additional 100 channels. In original box; manual. $225 PPD.

FOR SALE: Regency RH606-B. 60 W VHF business/public service band 2-way radio. Includes manual, access and programming. In service less than a year. $225 PPD.

Contact: Louis Campagna (PA-024), 8001 Castor Ave, #143, Philadelphia, PA 1915-2701 (11/15/89)

FOR SALE: Bearcat 100XL. 16 channel, all manuals, charger, nicads, schematic, antenna. Excellent condition. $75 OBO.

FOR SALE: ICOM R7000. Plus computer interface, software for IBM. (No price included with ad information.)

Contact: John Hampton (NY-478), 245 W 76th, #C, New York, NY 10023. (212)580-2112. (11/20/89)

FOR SALE: Regency HX1000. Battery pack, whip antenna. Will ship UPS. $175.

Contact: Veryl Burt (CA-LA-441), 2054 Marengo Ave, So. Pasdena, CA 911030-4633. (11/21/89)

FOR SALE: Regency MX5000. All original accessories, including carton. $200.

FOR SALE: Bearcat 100. 2 cases, 2 antennas, 1 AC/adapter. Manual. Well used but in good condition. $65.

Contact: Scott Menke (IL-054), 243 S. State St, Elgin, IL 60123. (708)697-8219.

WANTED: Schematic and/or tune-up instructions for Regency M100 and/or K100.

Contact: Martin Toomajian, Jr. (IL-134), 15 25th St, Watervliet, NY 12189 (12/06/89)

FOR SALE: Realistic PRO-38. VHF-UHF hi and low, good beginner's scanner. Price includes UPS delivery. $115.

Contact: 2243 Cherry St, Sanger, CA 93657. (12/12/89)

NEW PRODUCTS REVIEW

This column is for news of new products and product reviews of interest to scanner and short wave utility listeners. Send news, reviews, and comments about receivers, antennas, frequency publications and other products related to the hobby to:

Curtis Harbin, P. O. Box 5576-E.K.S., Johnson City, TN 37603

Welcome one and all to the February issue of New Products ! Glad you could be with us again. I have got a lot of information this go around, so we'll get started.

From Thomas Siemers (MI-216) comes this report on the AOR-880 portable he purchased. The unit has 20 memory channels and broad frequency coverage: 30-50, 138-174, 406-512, 830-950 mhz. The unit is tiny—the smallest handheld available. It has many functions: search, search hold, delay, priority, and selectable search increments of 5, 10, 12. 5, and 25 khz. (25 khz in 800 mode only). Sensitivity is factory rated at .4uV. My own observations indicated the 880 was somewhat less sensitive than my Pro-2004 using Grove indoor telescopic antennas. The unit is powered by either nicad pack or 4 AAA alkaline batteries.

I have several complaints about the AOR-880. The literature included with the unit is incomplete and needs to be updated. The unit comes with no extras, i.e., battery pack, AC adaptor/charger, or holster. The rubber ducky included with the 880 is virtually worthless. Also, there is no weak battery indicator.

Overall, the AOR-880 is an excellent unit. I recommend it to anyone who may want to scan only a limited number of frequencies but also wants 800 mhz capability. The price is $199 and is available from Ace Communications in Indianapolis.

My next bit of info is from Ted (TN-052). Ted got himself an INF-3 scanner. The regency unit was purchased from Bennies Electronics for $69. 95. A real good buy. Ted said he likes the Turbo scan and the good sensitivity. He said it doesn't have enough selectivity. The unit can be had from Bennies Warehouse Distribution Center at (717) 759-2201.

Ted also got a new Pro-2005 in exchange for his old Pro-2004 that evidently couldn't be repaired because parts were going to be on back order for a long time. Also, Ted suspects that parts may become discontinued! Perish that thought for all of us who have the Pro-2004 units! My thanks to both of the above gentlemen who sent me info.

Next, from Lou (NJ-253), comes a report on an item he has gotten and modified. He purchased a Panasonic RN-125 micro-cassette recorder. It uses 2 AA batteries, including the nicads that come with it. There is also a charger/adaptor, purchased at a discount store for $69. $69-$79 seems to be the going price. He has used the unit on the Pro-2004 with good results. To prevent overloading the input circuitry he added a Radio Shack signal reducer which cuts the level 40 dB. Part #274-300, $2.79. (p. 129 in the '89 catalog). One can make the adapting cables or purchase these so that any radio may be used with the unit.

Here is the small modification Lou made on the recorder. Carefully open the unit by removing the 4 screws on the backside. There are 2 tabs on the bottom of the recorder which hold the back to the front. Carefully work the back off so as not to break these. Once the back is off, gently pry the side of the recorder that has the tone and speed switches. You only need to pry it up 1/4" or so since there is a pulley belt that could be snapped or knocked off by tugging the circuit board jar from its housing. Remove the switch plate for the speed control and lock it in the 2. 4 ips position. This way the unit can't be accidentally switched by you when you don't want it to happen. One can use a pen, pencil, or paper clip to get to the switch. Carefully put the back in place and be mindful of the tabs. Put the plate somewhere where you won't loose it in case you ever decide to put it back on again someday. The 2. 4 ips should provide better frequency response than at the 1. 2 ips speed.

The built-in mike is ok, but by using an Electret mike from Radio Shack # 33-1063 I don't have the vibration pickup of the deck itself. I tried different cassettes—Sony, Panasonic, and TDK. The TDK seemed to have better audio quality, next came Sony, and finally, Panasonic. The microcassette will easily travel with you and can be stored almost anywhere, whether in glove box or in your pocket. I have tried other units such as the Micro-27 from Radio Shack, it just wasn't as good a unit. I had trouble with the power supply and the audio quality wasn't as good. The Panasonic has a bigger speaker than most units do.

Thanks Lou for that info. He has sent in some other material but I will hold off until next time to finish it up.

MetroWest Taper Box

From Mr. Mike Huth, owner of MetroWest, comes the Taper Box. Mr. Huth has graciously provided me with a demo unit for this column. The Taper box is a device that allows the user to charge the battery packs up fully and then the device shuts down. The original device did just as the title suggests; it tapered the charge of the packs after 14 hours, but with the new circuitry Bearcat now uses, the Taper Box is slightly different. Instead of tapering the current after a full charge, the unit totally cuts off. The demo unit was used on my BC-200XLT scanner.

The unit is small and compact. Simply plug the wall charger plug into the Taper Box and the box onto the radio. The LED begins to flash on the Taper Box and the LED on the scanner also lights. After 14 hours, the LED on the Taper Box goes to a steady light, indicating a complete 14 hour charge and the

LED on the scanner will go off. The unit does not taper the current, it simply shuts off the current to the pack to prevent over charging. A nice idea for those of us who require a fully charged spare pack at times. We can now have and leave a spare pack or radio in the charger an unlimited amount of time and have no fears of over charging, thus decreasing battery life.

The Taper Box can be left attached to the scanner without the wall charger on it. The scanner will not discharge through it and the module acts as a stabilizer.

With my normal use of charging my packs, the unit did just fine and as noted with the instructions that come with the unit, did run a little warm, but this is to be expected. I experienced only one problem with the unit and that was on two occasions of 14 hour charges, my pack only lasted 3 or 4 hours. While I was on vacation, Mr. Huth had written me he had discovered in certain production runs that a resistor was the wrong value and would result in the situation I describe above. Since then, the units have been either recalled or repaired and that it should not happen anymore. My unit was modified and have experience no other problems with it!

Overall, I was impressed with the unit. It is so nice to be able to have a fully charged pack anytime I want it, without fear of over charging the packs. With this unit, you can do just that!

MetroWest also makes The Pro Power 2 unit, which is a charging stand for the Bearcat and other radios that will charge and then switch to a trickle charge. The new Pro Power 2 is scheduled for release soon and should be in stock as you're reading this. MetroWest has promised a demo unit to this editor for review as soon as possible. MetroWest has many other scanner-related items as well in their new catalog. Be sure and write them and tell them you read about them in RCMA and they will be happy to provide you with an updated catalog. There address is: MetroWest, 822 n. Spring, LaGrange Park, IL., 60525. The phone number is:(312) 354-2124.

The Taper Box is manufactured for other scanners as well, not just the BC-200 XLT units. Others include: Regency, Radio Shack, and BC-100 XLT'S.

The cost of the BC-200XLT Taper Box is $19. 00 plus $1. 50 shipping and handling for each box ordered. This Taper Box also fits the BC-100XLT, as well as Regency 4020 and 4030 units. One thing I might add is that the unit comes with a full one-year warrantee and also a note in the instructions that say if the unit does not meet your requirements (because it shuts off rather than tapers the charge), it may be returned within 30 days of shipment for a full refund.

Are there any drawbacks or quirks? Yes, I think there are three things that bugged me and they are as follows: (1) To make good contact with the battery pack, the portable just about has to be removed from the holster. Otherwise it has a tendency to fall out of socket. (2) Screws on Taper Box can, if attached to pack, slightly scratch it up by plugging and unpluging the unit, or by moving it around. I cured this problem by placing a dab of silicon sealant on the screws to protect the casing. Works great! (3) For some of you, the following is important; for others, it won't much matter. For me, it didn't matter. From my use of the unit, I discovered that you can't listen to the scanner and charge the portable up using the Taper Box. I tried it, always the same results, the battery indicator on portable started flashing as if the pack needed charging. (This happened even if pack was fully charged). So, either use the Taper Box with unit off, or use the wall charger by itself if you must listen to the scanner while you charge the pack.

My special thanks to Mr. Mike Huth and MetroWest for the opportunity to review the Taper Box and for graciously providing me a unit to do so with. We look forward to seeing and using the new Pro Power 2 unit as soon as it's available to this editor.

This just in from Metrowest: Mike informs me that there have been some additions. First off, after many comments about having to remove the scanner from the carry case, they have another unit also available. It's the same as my demo unit except that the plug is longer, allowing it to be plugged in without removing the case. It is the T-102L model and costs $1 more (total of $20 plus $1.50 S&H). Just add an "L" to the catalog number. Next, they are looking for flatter screws to avoid marking the battery pack up. Third, Mike mentions that the battery indication of low may come on when any plug without any connections is inserted into the pack! Thus, the indicator may not always be a true indication of the status of the pack. The batteries do charge with the scanner turned on using the Taper Box, but the display may indicate otherwise.

Pro-34

From the A/E of Arizona, Bob Schmulian comes these observations on the Radio Shack Pro-34 portable scanner. Bob recently purchased one of these units when they were on sale a few months ago. Bob says it is a new experience in scanning. He has had other portables, but this one is the most useful of all. He never thought 200 channels were a necessity, but it is!

His first Pro-34 had sensitivity problems. He exchanged for another unit and is very pleased now! The overall performance is excellent though the keyboard is a little flaky; it takes firm pressure to get reliable keystroke entry. With lighter pressure, the keys click but the entry isn't made. At times, the keyboard and such are slow to respond to commands.

Bob likes the "scratch pad" capability using the "monitor" feature of the unit while searching, says that it is outstanding! He just wishes that they had given more monitor memory. A few people have complained about the belt clip. He finds it made of tough plastic and fine with him. No problems. He would like to see more sensitivity on the low and air bands of the unit. VHF, UHF, and 800 are excellent. Bob did the Cellular modification—works very well and it also enables 30 khz. search increments on the scanner.

Keys on top are a real plus also! Unlike those on other scanners, the display is located so your fingers don't touch it getting it dirty and scratched up. Would like to have seen a metal case like that on the HX-1000/1200 units, but you can't have everything! Internal construction with surface mount devices

is outstanding! Hard to service, but reliable!

The one major gripe is that it appears they used a slightly non-standard BNC mount. He's tried several other Radio Shack antennas, but none of them properly engages the connector. Slight tolerance difference here. This occurs on other portables, but not to the extent it does here. He may change the BNC mount later on. But for $299 when they were on sale, he's well pleased. As far as intermod goes, it showed evidence of a strange problem. A very strong digital signal at about 453 MHZ was present all across the 450-470 band at all frequencies, though at a low level which was squelched easily. When it became annoying was during reception on 450.350, since it would cause distortion of the audio. The problem is worse at some locations in Tucson than others. I assume this is because of the varying signal levels of the digital pulses. I've got to believe that the interference is creeping into the IF somewhere and that this is not truly an intermod problem, but it is annoying!

Thanks Bob for that fine review. Glad you're enjoying the unit. They are good. I love mine as well. My Pro-34 receives better in the car on the duck antenna than the BC-200XLT does. Just doesn't even like my car unless I put it on the outside antenna.

From Allen Cole (VA-087) come these remarks about the Pro-34 scanner. Allen has also joined the ranks of us using these units. He is quite pleased with his scanner. Reception is excellent on foot or in the van, and intermod and overload was minimal. To cut down intermod in the Richmond area, he uses a U. H. F. duck antenna instead of the original one. He said he uses the original antenna when in a rural area or listening to aircraft.

Allen found that at times, his scanner would lock up on the receive frequency of nearby late model Motorola portables. He hasn't noted this with other brands of two-ways such as GE, etc. This happens at a range of 50 to 100 feet, and with U. H. F. radios only. Allen doesn't like the plastic case or the battery cover, but does like the option of using dry cell batteries if needed. Selectable modes would be awful nice also. The unit is excellent on 800 coverage and aircraft as well. He also advised that his unit survived a 5' fall to a wooden floor without any ill effects.

That's all I have this time around, folks! Sure has been fun! Everyone take care and stay healthy and send information in to me! I can always use it!!!!! Until next time.....

NEWS MEDIA COMMUNICATIONS

This column is for reporting information about news media radio communications. Send frequency lists, information, questions and any related articles on two-way radio systems used by television, radio, newspaper, magazine, film production companies, etc. to:

Allen G. Henney, MD-069, 6912 Prince Georges Ave, Takoma Park, MD 20912

First in the mailbox this month is a listing from **Ken Roberts (FL-025)**, one of the largest listings that I have received to date for South Florida. In many cities, traffic aircraft often use an aircraft frequency to exchange traffic information (often 122.75 or 123.05). I asked Ken if he knew of any such frequency in the South Florida area. After I spent several hours last year searching the entire VHF aircraft spectrum in Miami, I could not come up with anything. Ken also states that he has searched from 122 TO 125 MHz without discovering any such activity.

South Florida: Miami - Fort Lauderdale

161.730	WHYI-FM100.7 "Y-100"	(Remotes)
170.150	WNWS-AM790	(Remotes)
450.650r	Metro Traffic Control	(Traffic Reports)
450.850	WRMF-FM97.9 "Yellow Copter"	(Traffic Reports)
450.875	WKQS-FM99.9 "KISS 99.9"	(Remotes)
450.9375	WKQS-FM99.9 "KISS 99.9"	(Remotes)
455.250	WRBD-AM1470	(Remotes)
455.550	WINZ-AM940	(Traffic Reports)
455.650	Metro Traffic Control	(Input to 450.65)
455.800	WNGS-FM92.1 "Skylight Traffic Plane"	
455.850	WZTA-FM94.9 "ZETA 4"	(Remotes)
455.900	WAXY-FM105.9 "WAZY FM"	(Remotes)

Ken notes that Metro Traffic provides syndicated reports for the following stations: WLVE-FM93.9 "LOVE 94"; WPOW-FM96.5 "POWER 96"; WMXJ-FM102.7 "MAGIC 102.7"; WHQT-FM105.1 "HOT 105". Metro Traffic also provides a "Generic" report. All of the frequencies listed above here are simplex, with the exception of Metro Traffic Control's repeater. Finally, Ken mentions that 450.65 is the most active traffic reporting channel in the area. Even after rush hour is over, there is much idle chit-chat and clowning around on the frequency. It can be interesting at times. Many thanks go to Ken for this very helpful report!

Jumping to the North, **Jim Otis (NY-152)** sends us the below listing for the Syracuse, New York area.

Syracuse, New York Area

Herald Journal Newspaper Photographers	152.12 (One Way Paging)
WAER-FM88.3	450.925 {Syracuse University}

WCNY-TV24161.7
WHEN-AM620 170.15 (has a traffic airplane) {Ray Park}
WIXT-TV9 (ABC) CH.1 Syracuse 450.050r (455.05 IN),
CH.2 Cortland 461.275r (466.275 IN),
CH.3 Auburn 461.925r (466.925 IN),
CH.4 Utica 461.875r (466.875 IN),
CH.5 Spec Evt 461.975r (466.975 IN) {Ackerly}
WNDR-AM 1260 & WNTQ-FM93.1 161.67 {co-owned by Orange}
WSTM-TV3 (NBC) CH.1 450.35r (455.35 IN), CH.2 450.35s
WSYR-AM570 CH.1 450.55r (455.55 IN), CH.2 450.15r (455.15 IN)
166.25 (little use) (WSYR has a traffic helo) {KATZ}
WTVH-TV5 (CBS) CH.1 450.25r (455.25 IN), CH.2 450.45r (455.45 IN)

Jim was helpful enough to provide us with ownership information for the different stations. This information appears above in braces.

From **Associate Editor Jerry Ensign (MN-063)** we have the following listing for Saint Paul – Minneapolis area. Many thanks also go to **Norm Pihale**, who contributed to this listing.

Saint Paul, Minneapolis, Duluth, Minnesota Area

Hibbing Broadcasting (Duluth) 161.64, 450.7 & 450.8
KARE-TV11 450.15 Primary Dispatch, 450.85 Helicopter
(Other listings include: 161.67, 450.05, 455.85)
KDAL-AM610 (Duluth area) 161.64 Remote Pick-Up, 161.73
KSTP-TV5 161.64, 161.67, 161.7, 161.73, 161.76, 166.25 & 450.55
Pioneer Press 151.655, 173.375
Tribune 157.74, 173.275, 173.325 & 452.975
WAYL-FM93.7 463.875
WCCO-TV4 170.15, 450.65

All listings are from the Saint Paul, Minneapolis areas unless otherwise noted.

Our **FCC Topics Editor, George Dubois** sends us some more updates for the Portland, Oregon area. George tells us that KGW-AM620 changed formats just a few months ago. A little more listening to 170.15 reveals the reason why they use 170.15 to feed the program audio to their traffic reporter when he could just get it off of the A.M. broadcast band (AM 620). Apparently, KGW constantly runs a 7 or 8 second delay for all of its programming (sounds like an all talk station). Their traffic reporter must monitor 170.15 instead of the A.M. radio to hear his cues. KGW station reporters give their remotes over 455.5125.

Metro Traffic in Portland just added a couple more customers for their syndicated traffic reports. Namely, KWJJ-AM & FM, and KMJK-FM. Metro Traffic's reports can be monitored on 450.4875. George also notes that several months ago, the Vancouver Columbian Newspaper went to an 800 MHz trunked system. It operates on:

1.1375, 862.1375, 863.1375, 864.1375, 865.1375

He says that so far, only 861.1375 has not been noted in operation. George also tells us more about the San Diego Union-Tribune Publishing Company 800 MHz frequencies which appeared in the December, 1989 and January, 1990 columns from Brian Johnson. The reason the frequencies are off-set 12.5 KHz (unlike the rest of the United States) is to allow for sharing with Mexico.

And finally this month, I would just like to remind readers that under current RCMA policy, we are not to print the last name of contributors UNLESS they give permission. Some members may not want their last name in print because of security reasons. In the future, I would appreciate it if you will state in your letter how you would like your contribution credited. Otherwise, I will use first name and RCMA membership number only.

Until next month . . . Alan

Space Communications
column editor needed!!

Free Membership,
1st class mail delivery

Interested? If you think you qualify, please contact:
William Mauldin, 961 Azalea St., Boca Raton, FL 33486

PUBLIC SAFETY

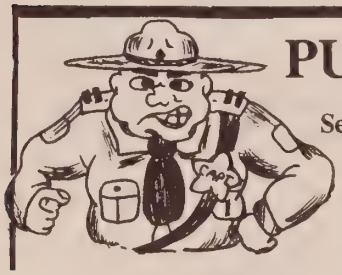
This column is for reporting Public Safety and Special Emergency frequency information, radio system details, radio codes, dispatch areas, unit numbering systems, etc. for poilice, sheriff, fire, forestry (except USFS), fish and game, highway patrol, state police, prisons, prisoner work camps, local government, highway & street maintenance, port authority/bridge maintenance, animal control, ambulances, paramedics, hospitals, life guards, ski patrol, search & rescue, flood control, civil defense and disaster organizations. Input and questions for this column must be sent to the proper regional Public Safety editor listed below.

Associated Public-Safety Communications Officers, Inc.

OFFICIAL TEN SIGNAL LIST

APCO states the numbering, sequence, words or word phrasing of the below listed signals may no be altered, nor may the reserved signals be otherwise implemented except by APCO. Any user may employ signal numbers upward, beginning with 10-40, as needed for local dispatching. RCMA publishes this listing in support of APCO and their uniform dispatch code efforts. We will print other dispatch codes, different from the OFFICIAL APCO listing, only to assist our membership in their continued monitoring hobby. It is hoped you find this listing useful.

10-1	Signal weak	10-19	(In) contact
10-2	Signal good	10-20	Location
10-3	Stop transmitting	10-21	Call ( ) by phone
10-4	Affirmative (OK)	10-22	Disregard
10-5	Relay (to)	10-23	Arrived at scene
10-6	Busy	10-24	Assignment completed
10-7	Out of service	10-25	Report to (Meet)
10-8	In service	10-26	Estimated time of arrival
10-9	Say again	10-27	License/Permit Information
10-10	Negative	10-28	Ownership Information
10-11	( ) on duty	10-29	Records check
10-12	Stand by (stop)	10-30	Danger/Caution
10-13	Existing conditions	10-31	Pick up
10-14	Message/Information	10-32	( ) units needed (Specify)
10-15	Message delivered	10-33	Help me quick
10-16	Reply to message	10-34	Time
10-17	Enroute	10-35 through 10-39 are reserved for future assignment by APCO. User option 10-40 upward.	
10-18	Urgent		



PUBLIC SAFETY—SOUTH EAST

Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows—Florida, Georgia, N. Carolina, S. Carolina, W. Virginia and Virginia:

Robert K. Cooke, 717 Seven Oaks Ln, Columbia, SC 29210

Compuserve–76340,2105 GRnie–R.COOKE5

Welcome to the February edition of PS/SE. I hope that this winter has not bothered you too much and you were able to research new frequencies while you were stuck inside. I have several selections for you this month so let's get started on them now.

FLORIDA

Randy Kerr, Associate Editor
310–1 SW 62nd Blvd, Gainesville,FL 32607

From: John (NY–308)

Brevard County Fire & Rescue Departments

154.160	County Fire Net	Tac 5
154.175	Mutual Aid Fireground	Tac 4
154.250	Fireground	Tac 1
154.355	Fireground	Tac 2
154.385	Fireground	Tac 3
155.160	Tactical/E.M.S.	Tac 6
155.715	Civil Defense Units	

Directory of Fire Stations

154.175	Dispatch	Brevard CityFire–Rescue
155.160	Backup for 462.95	Brevard CityFire–Rescue

462.950	ALS Dispatch	Brevard CityFire–Rescue
462.975	ALS Dispatch	Brevard Medical Transport
462.025	MED 2	1st Alternate
462.050	MED 3	2nd Alternate
463.100	MED 5	Primary E.M.S.
155.925	Dispatch	Cape Canaveral Fire Dept.
462.950	E.M.S. Dispatch	Cape Canaveral Rescue
154.190	Dispatch	City of Cocoa Fire Dept.
154.130	Dispatch	Cocoa Beach Fire Dept.
154.445	Dispatch	Courtenay Vol.Fire Dept.
154.385	Dispatch	Four Communities Fire Dept
154.175	Dispatch	Grant Vol. Fire Dept.
155.775	Dispatch	Indiatlantic Vol. Fire
154.160	Mutual Aid	Indiatlantic Vol. Fire
155.805	Dispatch	Indian Harbor Bch Vol Fire
154.160	Mutual Aid	Indian Harbor Bch Vol Fire
155.805	Dispatch	Malabar Vol. Fire Dept.
154.310	Fireground	Malabar Vol. Fire Dept.
154.160	Mutual Aid	Malabar Vol. Fire Dept.
154.400	Mutual Aid	Malabar Vol. Fire Dept.
154.400	Dispatch	Melbourne Fire Dept.
155.040	Dispatch E.M.S.	Melbourne Fire–Rescue
154.160	Mutual Aid	Melbourne Fire Dept.
154.775	Dispatch	Melbourne Beach Fire
154.160	Mutual Aid	Melbourne Beach Fire
154.445	Dispatch	Merritt Island Fire
154.175	Dispatch	Micco Vol. Fire Dept.
154.385	Dispatch	Mims Vol. Fire Dept.
154.400	Dispatch	Palm Bay Fire Dept.
154.175	Fireground	Palm Bay Fire Dept.
155.805	Fireground	Palm Bay Fire Dept.
154.160	Mutual Aid	Palm Bay Fire Dept.
154.310	Dispatch	Rockledge Fire Dept.
154.415	Fireground	Rockledge Fire Dept.
154.995	Dispatch	Satellite Beach Fire
154.160	Mutual Aid	Satellite Beach Fire
154.385	Dispatch	Scottmoor Vol.Fire
154.175	Dispatch	South Beach Vol.Fire
154.220	Dispatch	Titusville Fire Dept.
154.325	Fireground	Titusville Fire Dept.

GEORGIA

Steve Giovanis, Associate Editor
4314 14th ST, E. Beach, St Simons Island, GA 31522

Steve has not received any submissions from members in his state this month.

SOUTH CAROLINA

Bill Estes. Associate Editor
117 Willard Bouknight Rd, Irmo,SC 29063

Bill has received queries from other members but not any material for submission.

NORTH CAROLINA

Randy Whaley, Associate Editor
22F Sailsway Dr, Greensboro,NC 27406

From: Tenn. A/E Curtis Harbin & NC A/E Randy Whaley

WESTERN NORTH CAROLINA

042.620	Base/Mobile	N.C. Highway Patrol
042.780	Mobile/Base	N.C. Highway Patrol
042.820	Car/Car	N.C. Highway Patrol
042.720	Base/Mobile	N.C. S.B.I.(Statewide)
042.580	Mobile/Base	N.C. S.B.I.(Statewide)
159.090	Statewide	N.C. S.B.I.(Statewide)
031.540	Operations	N.C. Forestry ("D")
159.390	Statewide	N.C. Forestry *R*
151.355	Truck/Truck	N.C. Forestry
159.285	Operations	N.C. Wildlife
159.315	Operations	N.C. Wildlife
159.345	Operations	N.C. Wildlife
155.130	Dispatch	Asheville Police Dept.
155.430	Secondary	Asheville Police Dept.

154.875	Regional	Asheville Police Dept.
155.190	Intersystem	Asheville Police Dept.
158.820	Dispatch	Asheville Fire Dept.
154.860	Dispatch	Brevard Police Dept.
155.535	Secondary	Brevard Police Dept.
154.875	Regional	Brevard Police Dept.
039.100	Dispatch	Brevard Rescue Squad
453.825	Patrol Operations	Bryson City Police Dept.
155.280	Dispatch	Buncombe City Rescue
155.340	Regional	Buncombe City Rescue
462.950	MED 9	Buncombe City E.M.S.
463.175	MED 8	Buncombe City E.M.S.
467.950	MED 9	Buncombe City E.M.S.
467.975	MED 10	Buncombe City E.M.S.
154.815	Dispatch	Buncombe City Sheriff
155.610	Patrol	Buncombe City Sheriff
154.875	Regional	Buncombe City Sheriff
045.320	Dispatch	Buncombe City Fire Dept.
045.360	Fireground	Buncombe City Fire Dept.
045.480	Fireground	Buncombe City Fire Dept.
047.620	Operations	Cherokee Fire/Rescue
154.875	Patrol	Cherokee Police Dept.
155.280	Dispatch	Cherokee Indian Rescue SQ.
155.340	Operations	Cherokee Indian Rescue SQ.
154.445	East Dispatch	Cherokee City Fire Dept.
154.995	West Dispatch	Cherokee City Fire Dept.
453.050	Patrol Operations	Cherokee City Sheriff
154.875	Regional	Cherokee City Sheriff
155.550	Secondary	Cherokee City Sheriff
155.850	Secondary	Cherokee City Sheriff
155.910	Secondary	Cherokee City Sheriff
155.865	Sheriff/Fire	Clay City Public Safety
154.875	Regional	Clay City Sheriff
155.550	Secondary	Clay City Sheriff
155.850	Secondary	Clay City Sheriff
155.910	Secondary	Clay City Sheriff
155.280	Dispatch	Clay City Rescue
155.340	Operations	Clay City Rescue
154.085	Dispatch	Graham City Sheriff
154.875	Regional	Graham City Sheriff
155.550	Secondary	Graham City Sheriff
155.850	Secondary	Graham City Sheriff
155.910	Secondary	Graham City Sheriff
037.100	Rural Dispatch	Haywood City Fire Dept.
453.200	Dispatch	Haywood City Fire Dept.
453.325	Patrol Ops	Haywood City Sheriff
154.875	Regional	Haywood City Sheriff
155.550	Secondary	Haywood City Sheriff
155.850	Secondary	Haywood City Sheriff
155.910	Secondary	Haywood City Sheriff
462.950	MED 9	Haywood City E.M.S.
462.975	MED 10	Haywood City E.M.S.
463.175	Med 8	Haywood City E.M.S.
154.430	Dispatch	Henderson Cty Fire
153.890	Fireground	Henderson City Fire
154.250	Fireground	Henderson City Fire
155.595	Patrol Ops	Henderson City Sheriff
154.875	Regional	Henderson City Sheriff
460.150	Patrol	Henderson City Sheriff
155.265	Dispatch	Henderson City Rescue
155.340	Operations	Henderson City Rescue
462.975	MED 10	Henderson City E.M.S.
463.175	MED 8	Henderson City E.M.S.
154.220	Dispatch	Hendersonville Fire Dept.
153.950	Fireground	Hendersonville Fire Dept.
155.790	Patrol Ops	Hendersonville Police
154.875	Regional	Hendersonville Police
154.890	Secondary	Hendersonville Police
154.950	Secondary	Hendersonville Police
037.100	Rural Fire	Jackson City Fire Dept.
453.400	Public Safety	Jackson County

154.875	Regional	Jackson County Sheriff
155.550	Secondary	Jackson County Sheriff
155.850	Secondary	Jackson County Sheriff
046.040	Rescue	Jackson County Rescue SQ.
037.100	Rural Fire	Macon County Fire Dept.
453.350	Dispatch	Macon County Fire Dept.
154.785	Dispatch	Macon County Sheriff
155.700	Patrol	Macon county Sheriff
154.875	Regional	Macon County Sheriff
453.600	Patrol	Macon County Sheriff
045.960	Rescue	Macon City Search/Rescue
154.875	Patrol Ops	Maggie Valley Police Dept.
155.850	Seconary	Maggie Valley Police Dept.
155.910	Secondary	Maggie Valley Police Dept.
154.0850	Patrol Ops	Robbinsville Police Dept.
154.875	Regional	Robbinsville Police Dept.
155.550	Secondary	Robbinsville Police Dept.
155.850	Secondary	Robbinsville Police Dept.
453.825	Patrol Ops	Swain County Sheriff
154.875	Regional	Swain County Sheriff
155.550	Secondary	Swain County Sheriff
155.850	Secondary	Swain County Sheriff
155.160	Dispatch	Swain County E.M.S.
155.280	Operations	Swain County E.M.S.
155.340	Operations	Swain County E.M.S.
155.400	Dispatch	Transylvania City E.M.S.
155.160	Operations	Transylvania City E.M.S.
155.280	Rescue	Transylvania City Rescue
155.340	Operations	Transylvania City E.M.S.
037.100	Dispatch	Waynesville Fire Dept.
154.725	Dispatch	Waynesville Police Dept.
154.875	Regional	Waynesville Police Dept.
155.550	Secondary	Waynesville Police Dept.
155.850	Secondary	Waynesville Police Dept.
155.910	Secondary	Waynesville Police Dept.

VIRGINIA

Landon Davis, Associate Editor
2807 Rifle Ridge Rd, Oakton, VA 22124

We have a couple of mini profiles of certain locations in Virginia.

From: (VA-159)

NEWPORT NEWS, VA

154.130	Dispatch	Newport News Fire Dept.
153.770	Fireground	Newport News Fire Dept.
154.265	Fireground	Newport News Fire Dept.
154.2950	Fireground	Newport News Fire Dept.
453.650	Main Patrol	Newport News Police Dept.
453.600	Secondary	Newport News Police Dept.
453.700	Secondary	Newport News Police Dept.
155.205	E.M.S.	Newport News E.M.S.
155.400	H.E.A.R.	Newport News E.M.S.
463.1750	MED 8	Newport News E.M.S.
159.135B	Base/Mobile	Virginia State Police
159.165B	Base/Mobile	Virginia State Police

From: Harry (VA-153)

PRINCE WILLIAM COUNTY, VA

154.325	Dispatch	Prince William City Fire
154.370	Fireground	Prince William City Fire
154.445	Fireground	Prince William City Fire
453.150	Dispatch(West)	Prince William City Police
453.375	Dispatch(East)	Prince William City Police
453.475	Car/Car	Prince William City Police
453.700	Surveillance	Prince William City Police
155.205	E.M.S.	Prince William City E.M.S.
155.280	E.M.S.	Prince William City E.M.S.
155.340	E.M.S.	Prince William Cty E.M.S.
155.400	E.M.S.	Prince William City E.M.S.
462.950	MED 09	Prince William City E.M.S.
462.975	MED 10	Prince William City E.M.S.
463.175	MED 08	Prince William City E.M.S.

From: Bernie (VA-161)

FAIRFAX, VA

159.135	Base/Mobile	Virginia State Police
460.575	Dispatch	Fairfax County Fire Dept.
460.600	Medical Aid	Fairfax County Fire Dept.
460.625	Fireground	Fairfax County Fire Dept.
853.1875	Car/Car	Fairfax County Police
853.3375	Mc Lean # 3/5	Fairfax County Police
853.4875	Fairfax # 4	Fairfax County Police
853.6375	Fairfax # 8	Fairfax County Police
853.7875	Fairfax # 7	Fairfax County Police
853.9625	Car/Car	Fairfax County Police
854.1375	HQ	Fairfax County Police
854.2875	Alexandria # 2/6	Fairfax County Police
155.700	Dispatch	Vienna Police Dept.
453.550	Mutual Aid	P-MARS Intersystem
462.950	MED 09	Fairfax City E.M.S.
462.975	MED 10	Fairfax City E.M.S.
463.175	MED 08	Fairfax City E.M.S.

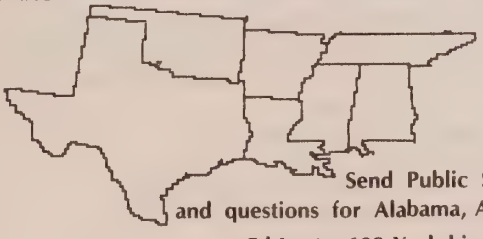
From: DJ (VA-151)

HAMPTON, VA

046.060	Dispatch	Hampton Fire Dept.
046.100	Fireground	Hampton Fire Dept.
155.550	Jail	Hampton Corrections
453.900	Main Patrol	Hampton Police Dept.
453.750	Secondary	Hampton Police Dept.
453.050	Secondary	Hampton Police Dept.
453.800	Mutual Aid	T-CAP Intersystem
155.235	Dispatch	Hampton Rescue SQ.
155.340	Operations	Hampton Rescue SQ.
463.175	MED 8	Hampton E.M.S
154.400	Dispatch	York County Fire Dept.
453.150	Main Patrol	York County Sheriff

Well, that wraps up another exciting month of scanning. Please continue to send any items to your Associate Editor so that we continue to build our knowledge of Public Safety activity in the Southeast. Only through your continued support to this column and the other topics will the R.C.M.A. grow and become better.

BEST OF MONITORING



PUBLIC SAFETY - SOUTH CENTRAL

Send Public Safety and Special Emergency frequencies, radio system details, and questions for Alabama, Arkansas, Louisiana, Mississippi, Tennessee, Oklahoma, and Texas to

Ed Lentz, 609 Yorkshire, Pasadena, TX 77503-1450

GEnie - ELENTZ DELPHI - THISARSE COMPUSERVE - 72645,172

Hello again. Lots to write about this month so I will keep my mouth shut and turn it over to the Assistant Editors.

ALABAMA

DAVID R. BECK, 422 Laurie Dr., Birmingham, AL 35214

Come on, you Alabama guys and gals, send in some frequencies. There must be some of you out there that have never written. Even is you have, let me hear from you again. Just jot down what you listen to in your area and send it in. We need your participation.

The Homewood Fire Department (suburb of Birmingham) will be going to a UHF repeater any day now. Frequency will be 460.625. This should be the last of the low band frequencies for them. Now all Homewood sevices will be on UHF.

Lots of radio traffic in this area is going on via cellular phones. Many of the municipal police cars and emergency vehicles are cellular equipped. All the federal agencies are cellular equipped and use them quite often.

The following was sent in by Terry (MI-062) who worked in the Birmingham area last year at Princeton Hospital. Enclosed you will find a chart that shows all the radio codes in use throughout the department. As with most police/security officials, there is some compromise on the codes actually

used. Some things come over in plain english.

The frequencies on the Johnson H/T's are as follows

Rpt Out	Rpt In
F1 461.425	466.425
F2 463.725	463.725 – Simplex
F3 464.725	469.725

F1 is their dispatch frequency; F2 is used very seldom; F3 is the Maintanance and Engineering Depts.

On F1, only the unit designators below are used:

Unit 5	Director of Security
Unit 7	Supervisor
Unit 8	Front Lobby
Unit 10	Patrol Van
Unit 12	Princeton Towers (Sr Citizen's Housing)
Unit 15	POB #1 (Professional Office Building #1)
Unit 16	POB #2 (Professional Office Building #2)
S1, S2, S3	Shuttles (to Parking Lots, also may include patient pickup at their residence

The Communications/Dispatch Room has a Kenwood 460 MHz radio with Birmingham PD frequencies programmed in. The Transciever is used frequently to talk to the 'west' patrols as required. They are set up to transmitt only on the output frequency. With 25 watts, they can be heard quite clearly. Birmingham PD Car 37 is normally assigned to the hospital. The latest version of Police Call has the correct frequency assignments. Channels 1,2,and 3 correlate with F1, F2 and F3 on the H/t's. Birmingham PD freqs are 4 thru 8. I am not sure but I think they also have frequencies for BMC – Montclair and BMC – Cherokee security departments.

LOUISIANA

JEFF WALDROP, 1018 Bee Tree, Westlake, LA 70669

I welcome everyone to the Feb 90 newsletter! I received a nice set of frequencies from one of the members from Alabama:

Thibodeax, La:		**Lafayette, La:**	
155.415	Thibodeax Police Dept.	155.655	Lafayette Parish Sher.
39.440	LaFourche Parish Sher.	154.770	Lafayette Police Dept.
158.790	Assumption Parish Sher.	155.695	LA State Police
155.565	La. State Police	155.415	St. Martin Parish Sher.

He also included a few aircraft frequencies, but it is better that I forward these to the appropriate editor. Again, I would like to hear from more of you!

OKLAHOMA

JAY KRUCKENBERG, Rt. 2 Box 31, Mooreland, OK 73852

Greetings from the state that Rand–McNally thought was not important enough to include in their new atlas.

This week I was told that Oklahoma will be adding two new ten codes to their list. As of this time all I know is that they will be used for dealing with drug users and pushers. The new codes are 10–74 and 10– 75. As soon as I find out what their meaning is I will let everyone know. If anybody hears these codes in use I would appreciate hearing from them as to how they were used.

From Richard (OK–053).

Claremore Fire Department
154.295 460.6375

Skiatook Fire Department
155.715

Owasso Fire Department
155.775 155.865

Okmulgee Sheriffs Department
155.550 Repeater input is 154.740
155.670 Intersystem

Frequencies from Enid, Oklahoma

44.70		Oklahoma Highway Patrol, Troop J Hq. – Base
151.040	R	Oklahoma Dept. of Transportation
154.130		Fire Dept. Mutual Aid
154.445	R	Fire Dept. – Main Dispatch
155.040		Public Works
155.160		Enid Ambulance Service
155.340		Hospital Mutual Aid, Ambulance to Hospital
155.400		Enid Memorial Hospital, Paging
155.490		Police & Sheriff Dept. – Mutual Aid
155.520	R	Police Dept. – Main Channel
155.580		Police Dept. – Secondary, Car to Car
155.595		Garfield County Sheriff
155.670		OHP Intersystem
156.165	R	Garfield County Crews

These are unknown frequencies for Enid, OK. If anyone knows what these are used for, I would appreciate it if you would let me know so I may update the database.

155.865	Possibly city crews
158.865	?????
453.250	Licensed to Oklahoma State

460.275 Licensed to Oklahoma State

That's all for this month. Keep your ear to the scanner.

TENNESSEE

CURTIS HARBIN, P.O. Box 5576 EKS, Johnson City, TN 37603

Received a letter from Bill – Ohio? when he recently visited the Memphis area with frequencies for the Memphis Police Department. They are:

Memphis Police Department

F1	460.025	Central and West Dispatch
	460.175	North Dispatch
	460.300	South Dispatch
	460.325	East Dispatch
F2	460.350	Car to Car
F3	460.075	Information
F4	460.400	Mutual Aid
F5	460.125	Detectives
F6	460.500	Command
F7	460.225	Traffic

Memphis Fire Department			**Airport**	
F1	453.750	Administrative	155.715	Police
F2	453.850	Fireground	155.025	Operations
F3	453.600	EMS Dispatch		
F4	453.500	Airport Fire/Rescue		
F5	453.950	Fire Dispatch		

Thanks Bill. Anytime you have anything else to send in feel free to do so. All the 800 MHz radios are now being installed for the rest of Washington County Tennessee. This includes all the VFD's, Dog Catchers and Garbage trucks. Just think, will hear a major fire being dispatched and then the next thing you hear will be about a stopped up sewer. Thanks Motorola!

TEXAS

ROBERT BARKER, 1801 Wells Branch Pkwy #1630, Austin, TX 78728

Hello Texas. Whew! Has my mailbox runneth over. Thanks to Brad's DFW list, I have been getting a steady stream of letters requesting copies. Edward (OK–47) writes to tell that in many larger cities they tend to broadcast "hot shot" calls over all the frequencies. This is done so that all the units, regardless of their channel will get the call. Brad does write to let readers know that Seagovile PD is now active on 156.490. H.M writes to let DFW readers know of some weird developments in the radio bands: Uniden is testing the 935 – 940 MHz range for research and development; Motorola is in the 410 – 417 MHz range. This might just make for some interesting monitoring.

Tim (TX–239) sends some very favorable comments for the column. I do encourage your comments. Let me know what you want to see and what you don't want to see. I'm open for suggestions.

I have also received frequent letters from both Kelly in Plano and Roger here in Austin. Both are college students who both wish they had started listening to scanners a lot earlier. I don't blame them one bit. I started when I was nine and still wish I had started earlier.

Andy (TX–232) writes to give me his latest list for Midland/Odessa, and a ten code list for DPS. On a side note, Jeff (TX–224) also sent in a list of Midland fire stations and a freq list. All are free for the asking, Just send me an SASE. Andy suggested that I mention a few basic terms that you may hear every day but not be familiar with the meanings. TCIC is the Texas Crime Information Computer. NCIC is the National Crime Info Computer. CCH is Confidential Criminal History. The DPS codes are fairly standard with the exception of two that even I have never heard. 10–54 is a silent Pursuit and 10–66 is Warrant data bank want indicated. Now don't go and ask me what either one means as I have no idea.

MIDLAND FIRE DEPARTMENT

154.430 Dispatch – WZX833

STATION 1 – 1500 W. Wall Ave.
Battalion 1
Engine 1
Engine Reserve
Tanker 1
Snorkel 1
Quint 1
Truck 1
EMS 1
EMS Reserve

STATION 2 – Baird & New Jersey
Engine 2
EMS 2

STATION 3 – 1710 N. Edwards
Engine 3
EMS 3

STATION 4 – Solomn Lane & Lamesa Hwy.
Engine 4

STATION 5 – Garfield & Golf Course
Engine 5
Rescue 5

STATION 6 – Midland Dr. & Thomason
Hazmat Engine
EMS 6

STATION 7 – Midland International Airport
Crash 1
Crash 2
Rescue

STATION 8 – Midkiff & Haynes
Engine 8
EMS 8

STATION 9 – 6005 N. Midland Dr.
Engine 9

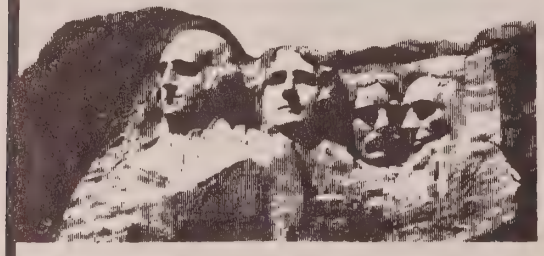
Jerry (CA-AL-026) sends along a list for Sheppard AFB and Wichita Falls area. Again free for the asking, for a SASE.

Russell and I have been trying to figure out why Fiesta Grocery in Houston is on 465.550. If there are any radio techs out there reading this, why on earth would a business be put on a Police/Fire freq used by the 4th largest city in the U.S.—there will be problems, I guarantee it.

I would also like to thank Marty (TX-216) and Marcus (TX-?) for their letters of encouragement. Brent writes to say that he is alive and well in Nacogdoches but can't figure out why they are licensed on 465.XXX freqs and not the corresponding 460.XXX freqs - Anybody got any ideas? Well, that about raps it up for this month. Happy Monitoring.

S'cuse me Robert, but I have some things that have popped up at the last minute that need to be in the newsletter. Houston Police Department has made some changes in their district organization and also some of the frequencies that they use. The ones that I know about are:
460.550 - New South Central
460.075 - Old South Central Possibly will be the new Magnolia District
460.425 - Citywide
460.225 - Car to Car

I was given a list of frequencies that are being installed for Exxon Refinery and also a Motorola trunk system in the Baytown Texas area and guess what? Yep, 935 - 936 frequency range on a 600 footer. Also some of the new pagers in the Houston area are on several 935 frequencies. Since the Exxon frequencies may be used by their Fire Department maybe we can bend the rules a little and print them in this column. 935.3875, 935.400, 935.4125, 935.425, 935.4375, 935.4500, 935.4625, 935.475, 935.4875, 935.500(Control Tone). Motorola is using 936.0125, 936.050, 936.0375, 936.100, and 936.0875.



PUBLIC SAFETY NORTH CENTRAL

Send Public Safety and Special Emergency frequencies, radio system details and questions as follows—Iowa, Kansas, Minnesota, Missouri, Nebraska, North and South Dakota:

Michael W. Scheel, 410 W. Garfield, Davenport IA 52803-1415

Welcome again to North Central.

Iowa > > > > >

Michael W. Scheel, 410 W. Garfield St., Davenport IA 52803-1415

Muscatine County

places within county	Law	Fire	public works
Atalissa	County	154.175	
Conesville	C	154.175	
Fairport	C	Durant[154.415]	
Fruitland	C	154.250	
Montipeler	C	154.175	
Muscatine (county seat)	460.225	154.250	154.085
Nichols	C		
Stockton	C	Durant[154.415]	
West Liberty	154.830*	154.175	158.805
Wilton	154.830*	154.175	155.940

All VFD's have an assigned rural areas except Muscatine city fire which is also a fulltime department with two stations.

Sheriff radio plan

F1 154.830B 154.830m OPS
F2 155.310B 155.910m INFO
F3 155.790R 154.770m LEA (State radio)
F4 155.475B 155.475m AID
- 155.850 155.850 handheld
- 155.370B Point to Point
- 155.340B EMS
- 158.730R 156.090m DATA/scramble/OPS

Unit codes-

710 Fruitland Police
720 " Fire

City of Muscatine

F1 460.225R main
F2 460.225m car to car
- 155.475B AID
- 155.370B Point to Point

FIRE

F1 154.250BM operations
F2 154.280BM Fire/Defense
- 154.175BM county

Station 1 312 E. 5th ST
Station 2 1100 Oregon Avenue
Public Works
154.085BM

730 West Liberty Police
740 " Fire (747 ambulance)
750 Wilton Police
760 " Fire

70-1 to ?? Sheriff

70-61 Atalissa Marshal
70-63 Nichols Marshal

Muscatine city police seems to use the 900 series.

County Road Maint. 151.130R 156.165m
no police or fire have been heard on it.

TRANSIT
453.575B 458.575m
Dept. of Power & Water
451.225 R
451.025
Riley Ambulance
155.175BM
Muscatine General Hospital
155.340BM EMS

West Liberty

Police
while they are on the county radio system. They have low power bases on 154.830 and have a control for 155.790R LEA. They ID on either as 'West Liberty Control' or just 'West Liberty'.

Public Works 158.805BM
155.820BM

Only two state agencies have places within the county with a base station.

DOT is on 159.195R

DNR has a Water Patrol Station at Fairport 155.595BM with is used April to Sept.

The Highway Patrol is from Post 12 they are on 155.640R DPS
155.790R LEA
dispatch is located in Cedar Rapids and they use the 'Muscatine' site.

Wilton

Police

Police Squads' radio plan

1	154.830B	154.830m	Mus. Cnty OPS
2	155.940B	155.940m	'Cityband'
3	155.790R	154.770m	LEA
4	155.475B	155.475m	AID
5	154.725B	154.725m	Cedar Cnty OPS
6	155.250B	155.910m	Cedar Cnty INFO
7	155.310B	155.910m	Mus. Cnty INFO
8	---.---	---.---	simplex PBX

Cityband is used by police,fire,& public works.

Municipal Electric Dept. 153.725BM

The only school district in the county with a radio system is Muscatine Community School Dist. on 461.775.

A small area in southern part of county is covered by Letts VFD on 154.145 (they have 154.175 in the mobile radios.

To add one more item a small part of county in the northeast is covered by Walcott VFD (Scott County) on 154.220, they do not have 154.175. A portion in centrol west county has no assigned VFD any incidents are covered as needed.

KANSAS > > > > >

Steve Jester, 1115 N. Park, Wellington KS 67152

Leavenworth County (Bob)

The Leavenworth Co. SO and local PD's out in the county have all gone to a 800mhz. system (conventional, not trunked). The freq. plan is:

851.5625 Ch.1, main dispatch for SO
852.5625 Ch.2, car to car and secondary for SO
853.5625 Ch.3, Tonganoxie, KS PD

References to Ch.4, etc. pertain to simplex use of the above freqs. It will be interesting to see if they are also licensed to expand to 854 and 855.5625; predictions are for a 55% population growth in the county in the next few years. Down in the southwest part of the county where I live there are a lot of dead spots in the 800 Mhz. system.

Other Leavenworth County systems include:

150.995 County engineer/road department, 159.165 input
153.950 County fire/EMS car to car
154.385 County fire/EMS dispatch
155.820 County EOC, SO, Seniors' Busses, Leavenworth City PD, and KHP cars. A little of everything here.

Additional KS liquor control use of 45.100 reveals that it is called 'Channel 6'. This fits with the other five KHP freqs.
(EDITOR Question: Does KHP operate on other non-state systems like on 155.820? MWS)

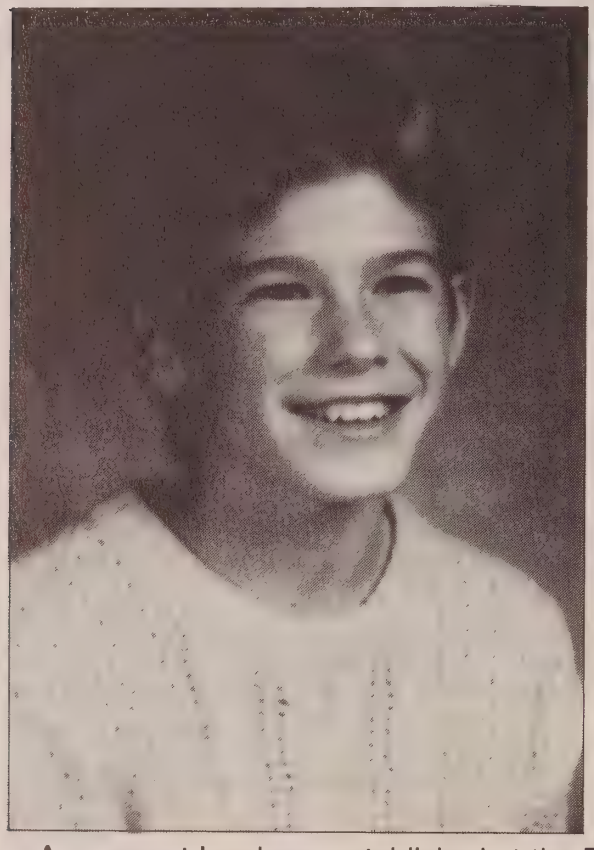
MINNESOTA >>>>>

Jerry Ensign, PO Box 28148, Crystal MN 55428-0148

From NP MN-061 the following list.

154.920 MN State Patrol 2100 Rochester District Repeater / KAB435 PRI mobiles 158.910 JE)
154.695 MN State Patrol 2100 Rochester District Alternate-CH 2
171.575 MN State Patrol Ch3 Statewide/Aircraft/Radar/car to car
458.250 Portables/Mobile Extender (note: helicopters have extenders too
155.730 Rice County Sheriff PRI (+Northfield PD)
155.835 Rice County Sheiff Alternate, Ch3, -SKYWARN Frequency
453.375 NorthField PD SKYWARN repeater
155.550 Rice County Sheriff Secondary
160.335 MN State Patrol CH15 Aux. Dispatch (JE)
155.475 MINSEF (NLEEF) (JE) 155.370 Point to Point (JE)

The following material was furnished and paid for by RCMA *Monitoring & the Law* Editor Jorge Rodriguez on a one-time-only basis.



KIDNAPPED

Jacob Wetterling Age 11

Jacob was abducted on Sunday, October 22, 1989, from St. Joseph, Minnesota (80 miles northwest of Minneapolis, MN) at approximately 9:15 p.m. He, his brother, and a friend were approached by a male subject wearing dark clothing, a mask, and carrying a handgun. Jacob's brother and a friend were allowed to leave but Jacob was forced to remain.

Jacob is five feet tall, 75 pounds, brown hair, blue eyes, mole on left cheek. He was wearing a red hockey jacket with an orange vest, blue sweat pants, and Nike high top tennis shoes.

An account has been established at the First State Bank of St. Joseph as a reward fund and search fund. Contributions can be sent to:

First State Bank of St. Joseph • Jacob Wetterling Fund
Box 159 • St. Joseph, MN 56374 • (612) 363-7721

WANTED

for questioning by the FBI:

Authorities would like to question this individual who was seen in the area of the abduction on October 22, 1989. He is described as a caucasian male, approximately 50 to 55 years of age, 5'10" to 6'0" in height, balding gray hair, and weighing 185 to 210 pounds.

Anyone with information about the case should call STEARNS COUNTY SHERIFF'S OFFICE TASK FORCE

24 HOURS A DAY (612) 259-3981

MISSOURI >>>>>

Michael G. Redman (MO-002), PO BOX 49, High Ridge MO 63049

This month we will go back to the file of the newly issued or pending FCC applications for Missouri. Please feel free to confirm or comment

Meta Firefighter's Assn. 154.310
Barton Co. Emer. Squad 155.235
Morgan County 154.025
Callaway Co. Emer Mgmt. 153.770
Bulter R-5 Schools 155.205
Benton Co. R-1 Schools 155.265
Ivy Bend Fire (Stover) 154.995
Scott County (Benton) 151.055
Andrew Co. (R)- 155.415
(m)- 154.650
St. Clair Co. Emer Mngmt. 158.745
City of Byrnes Mill 155.010
Misouri City FD 154.400
S.Barry Co. Ambulance 155.955
Webster Co. 155.745 158.850
Clearwater FPD (R)- 154.415
(Piedmont) (m)- 153.770
Moreau FD, (Eldon) 154.145
Community Amb. (Meta) 155.160
Pulaski Co. Ambulance 155.265
Midway Schools (Cleveland) 155.235
Fulton EOC 158.805
Perry Co. 453.55 R / 458.55 m
Reains School Bus Service, 155.280
(Bolivar)
Pike Co. Water 453.5R / 458.5 m
State Patrol Weight Stations:
St. Peters, Weldon Spring, and
Imperial, adding 42.380

Bland Police/Fire 155.550
City of Odessa PD 155.715,
151.250R,159,420m,453.9875
St. Charles County Rescue And
Recovery 155.295
Louisiana Road Dist. 159.045
Quad County Fire Prot. Dist.,
(Viburnum) 154.295
City of Smithville 151.145
Benton Co. CD (R)- 154.085
(m)- 155.985
Big River Ambulance 155.355
(will replace 155.055)
Hickory County (R)- 154.040
(m)- 158.940
W. Peculiar FD 154.160
Morgan Co. R1 Schools 155.235
Coffman Bend FD 154.235
(Climax Springs) 154.385
Laurie PD 155.700
Wood Heights FPD, 155.355
(Excelsior Springs)
Lincoln Co. Sheriff 158.850
Senath Fire/Rescue 154.250
City of Wyatt 155.880
Dade County Hospital 155.235
(Lockwood)
O'Fallon PD (R)- 155.625
(m)- 154.950

Hope this gives most of you new places to look for your favorite agencies across Missouri.

VIA the Kanasas AE. From KS-00 464.775 appaers to a security company as they were heard at Arrowhead Stadium for the Rolling Stones Concert. A repeater is being used as they had ht's and were 10-15 miles from KS-00 location.

PUBLIC SAFETY—GREAT LAKES

Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows—Illinois, Indiana, Wisconsin, Michigan, Kentucky, and Ohio:

Richard McLaughlin (MI-031) 3921 Marland Drive, Lansing, MI 48910

ASSOCIATE EDITORS for the GREAT LAKES

IL - Bob Fairburn IL-
PO Box 463
Gridley, IL 61744

IN - Dave Nugent IN-002
2542 Birk Drive
Jasper, IN 47546

KY - position open

MI - Rick McLaughlin MI-031
3921 Marland Drive
Lansing, MI 48910-4325

OH - Oscar Mann OH-222
P.O. Box 621 NOTE NEW
Hudson, OH 44236 ADDRESS!

WI - John Johnson WI-084
1905 E Lexington Blvd.
Eau Claire, WI 54701-6673

ILLINOIS

Bob has some contributions for us this month. Bob IL-267 sent us the following info -

857.7375 WNFM341 St Charles; Police, Criminal Justice Information Authority data bursts, base station, (confirmed by Bob)

155.160 call?? St Charles; Police tactical (confirmed by Bob)
St Joseph Medical Center; hospital security (confirmed by Bob)

Jerry, the Minnesota AE sent us the following frequencies -

Illinois State Patrol	Illinois Tollway Authority
154.920 Chicago/Elgin	854.9875 Belvidere
154.935 Chicago	855.2375 Elgin
155.460 Chicago/Des Plaines/Elgin/Rockford	
155.505 portables/mobile extenders	855.9625 Belvidere/Elgin
154.680 Chicago/Savannah	855.9875 Belvidere
154.695 Elgin/Harvard/Gurnee	856.2375 Elgin
154.905 Chicago/Des Plaines/Rockford	856.9875 Belvidere/Elgin
154.710 Executive Security & Metro	155.925 portables/mobile extenders?
Chicago Fire Dept	Chicago Police (trunked)
851.9125 North Dispatch	820.8875 820.9125 820.9375 820.9625 820.9875
851.9375 South Dispatch	856.9375 857.9375 858.9375 859.9375 860.9375
806.9125 806.9375 807.8625	865.8875 865.9125 865.9375 865.9625 865.9875
807.9125 807.9375	portables 155.85 158.85 158.73 158.88 159.03
	towing 453.775 Mayor's Security 155.970
Wrigley Field Chicago Cubs	
469.5875 Cubs Organization	151.625 Andy Frain ushers & security
151.625 Los Angeles Dodgers (in Chicago)	464.525 Szabo Food Service

INDIANA

Oops, it's egg on face time, I forgot to include Dave's letter for last month. Here it is along with his contribution for this month....

Indiana State Police helicopters may be found at times using 42.40 MHZ as a frequency to communicate with the various state police posts. ISP copters may also be heard on 42.26 and 42.16 MHZ. You might recall, 42.40 MHZ is the frequency being used currently by ISP Mustang units when they patrol in "Wolf Packs"...
It has been learned that the Indiana State Police will reorganize their areas and districts after the start of the year (1990). Some districts have already been switched from one area to another but the district and area's numbers have not been changed. The number changes will come in 1990. When the changeover is finalized, a map showing the updated reorganization of the areas and districts will be published.

EMERGENCY MEDICAL SERVICES, HOSPITALS - SOUTHERN INDIANA

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154.540  -   MEMORIAL HOSPITAL, JASPER (EMS,DOCTOR PAGING)
155.325  -   MEMORIAL HOSPITAL, JASPER (AMBULANCE COMMS)
155.340  -   INDIANA HOSPITAL EMERGENCY RADIO NET  "I.H.E.R.N."
155.220  -   ST. JOSEPH'S HOSPITAL, HUNTINGBURG (PAGING/EMS)
155.940  -   PERRY CO E.M.S.   (EMS PAGING/AMBU COMMS)
462.775  -   PERRY CO MEMORIAL HOSPITAL, TELL CITY
154.415  -   SPENCER CO E.M.S. RPTR  (PAGING/AMBU COMMS)
155.085  -   CRAWFORD CO E.M.S.  RPTR
155.400  -   WARRICK HOSPITAL/EMS, ORANGE CO HOSP/EMS
155.220  -   WARRICK EMERG MEDICAL SERVICE, BOONVILLE
155.265  -   WARRICK HOSPITAL, BOONVILLE
155.130  -   MARTIN CO E.M.S.
155.265  -   DAVIESS CO AMBULANCE SERVICE, WASHINGTON
155.295  -   MEDIC ALERT AMBULANCE, ODON
155.220  -   ALEXANDER AMBULANCE, EVANSVILLE (PRIMARY SERVICE,CITY)
155.175  -   COMAIER AMBULANCE, EVANSVILLE
464.075  -   COMAIER SERVICES, EVANSVILLE
155.295  -   ZIEMERS AMBULANCE, EVANSVILLE
155.265  -   MT. VERNON MUTUAL AMBULANCE
155.175  -   EMERGENCY MEDICAL SYSTEMS, VINCENNES
155.325  -   GOOD SAMARITAN HOSPITAL, VINCENNES
155.205  -   GIBSON CO RESCUE, PRINCETON
155.280  -   MARY SHERMAN HOSPITAL, SULLIVAN
155.235  -   DUNN MEMORIAL HOSPITAL, BEDFORD  (AMBULANCE)
155.040  -   PIKE CO E.M.S.  RPTR PETERSBURG/WINSLOW
153.620  -   ST MARYS MEDICAL CENTER, EVANSVILLE
154.540  -   ST MARYS MEDICAL CENTER, EVANSVILLE (BLDG MAINTENANCE)
155.160  -   ST MARYS MEDICAL CENTER, EVANSVILLE
155.235  -   ST MARYS MEDICAL CENTER, EVANSVILLE
155.280  -   ST MARYS MEDICAL CENTER, EVANSVILLE
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155.340  -   ST MARYS MEDICAL CENTER, EVANSVILLE
464.175  -   ST MARYS MEDICAL CENTER, EVANSVILLE
 47.540  -   WELBORN BAPTIST HOSPITAL, EVANSVILLE
123.050  -   WELBORN BAPTIST HOSPITAL                "LIFEFLIGHT"
154.515  -   WELBORN BAPTIST HOSPITAL
155.280  -   WELBORN BAPTIST HOSPITAL
163.250  -   WELBORN BAPTIST HOSPITAL                (DOCTOR'S PAGING)
462.950  -   WELBORN BAPTIST HOSPITAL                DISPATCH 1
462.975  -   WELBORN BAPTIST HOSPITAL                DISPATCH 2
463.175  -   WELBORN BAPTIST HOSPITAL                MED-8
464.325  -   WELBORN BAPTIST HOSPITAL
464.425  -   WELBORN BAPTIST HOSPITAL
155.280  -   DEACONESS HOSPITAL, EVANSVILLE
155.325  -   DEACONESS HOSPITAL
463.175  -   DEACONESS HOSPITAL

155.415  -   EVANSVILLE STATE HOSPITAL
155.280  -   KENTUCKY HOSPITAL ASSOC     STATEWIDE NET
155.235  -   MEDIC, INC, JEFFERSONVILLE
155.160  -   LAMM, INC, NEW ALBANY
154.540  -   ST MEINRAD E.M.S.
151.955  -   NASS AND SONS FUNERAL HOME, HUNTINGBURG
155.160  -   BECHER-KLUESNER FUNERAL HOME, JASPER
152.007  -   DAVIESS CO HOSPITAL, WASHINGTON  (PAGING)
155.235  -   YORK AMBULANCE SERVICE, BEDFORD
155.295  -   VIGO CO AMBULANCE SERVICE, TERRE HAUTE
155.205  -   UNION HOSPITAL, TERRE HAUTE
155.235  -   MONROE CO AMBULANCE SERVICE, BLOOMINGTON
164.200  -   VETERANS HOSPITAL, INDPLS
460.525  -   METHODIST HOSPITAL, INDPLS
155.265  -   EMERGENCY AMBULANCE, INDPLS
```

MICHIGAN

Our contribution this month is from Larry MN-62 who has just returned to Michigan. Welcome back and thanks for the listing.

Mt Pleasant Police

155.490 Dispatch
155.370 Information
156.090 coffee calls, shared with county
154.205 Fire dept paging and dispatch

Isabella County Sheriff

154.875 Dispatch/info
156.090 shared with city

Central Michigan University

154.800 Police dispatch/info
154.820 maint/tv/special events

Central Mich Comm Hospital

155.340 Emergency room/ambulance
155.400 ambulance dispatch

(note: this is a full police agency, not just security)

Alma

155.595 police dispatch
154.950 information
155.370 special ops

Clare County

39.90 county fire/ems dispatch
39.14 sheriff dept
39.74 county/city police

(ED NOTE - 155.370 is reserved for inter-agency communications, base to base!
It is very unusual to hear of mobile operations within an agency on this freq.
Most agencies with VHF-HI radios use 155.865 MEPSS for this purpose)

Mt Pleasant Central Dispatch

new service will operate on 156.09 and 154.875
Mt Pleasant PD units will ID '37-unit#'
Central Mich Comm Hosp will use numbers 125-135

GET PUBLISHED!

RCMA is still looking for photographs that can be used on the cover of the newsletter. Any member can submit these, and if one gets used it will earn a free two-month extension of the submitter's membership.

For reasons of reproduction, photos must be 8x10 or 5x7 black & white and in sharp focus. Vertical compositions (`portrait framing') are more likely to be used, unless the horizontal can be cropped to vertical.

Send pictures to Hugh Stegman, at the address shown above the BELOW 30 MHz column. Mark them `Press photos~Do Not Bend' and put in some cardboard. Sorry, photos cannot be returned.

OHIO

Oscar has moved, please make sure you note his new address.

WISCONSIN

Here is John's usual plethora of information...

NEW FREQUENCY APPLICATIONS

153.935	Town of Caldonia (Racine)	155.715	Hancock LG (Waushara)
453.900	Silver Lake LG (Waushara) 458.9 in	153.875	Stettin LG (Marathon)
155.040	Stettin LG (Marathon)	453.4875	Bear Creek LG (458 in)
462.9375	Green Lake Special Emergency	453.4375	Sheboygan LG (458 in)
453.5875	Hudson LG		

That is all I have for the month of November. Thanks to Larry (WI-005) for these. I have yet to hear from anyone regarding any activity on any I have listed. Let us know!! As far as the ECPD and ECFD ones that were listed in prior months, no activity. I do know that the ECPD has the new portables that were told about a couple months ago.

A Wisconsin State Patrol trooper was hit by a passing motorist five miles east of Eau Claire and was killed on October 26, 1989. She was returning to her cruiser when a passing van hit her cruiser and then hit the trooper. She was thrown 166 feet. A passing truck driver used the troopers car radio to call in the accident. This was the third state trooper to be killed in the line of duty in the 50 year history of the Patrol.

Now to continue with the article on the WSP radio system from LAW AND ORDER magazine that Bill Mauldin sent to me (see the October, 1989 issue). Each district has a Universal Radio Programmer to program the GE radios with. The programmer is roughly the size of a briefcase, and this programming a radio nothing more than hitting a few buttons!

The radios have eight modes. The first seven are for each of the seven WSP districts, and the eighth mode is for special emergency frequencies. The first seven banks have roughly the same layout, so that when modes are switched, the trooper doesn't have to look up what the layout is for that district.

The state required that the vehicular repeaters be automatically turned on when the trooper left the vehicle. Whenever the trooper opens the drivers door, the repeater is turned on. A button inside the cruiser is pushed to shut the repeater off. This is really a system! The repeaters have an automatic prioritizing function that prevents interference when more than one WSP vehicle is on the scene.

The portables and mobiles both have the GE-STAR ANI capability. Each radio sends an ID message whenever the radio is keyed. A short tone burst is heard before each conversation. When the decoder receives a portable ID, the decoder shows a five-digit LED display prefixed with a "P". Mobiles have a four-digit display with no "P". Also, the portables have a magnetic pull switch that will send a emergency message if the trooper is down or needs assistance. The new radios are really an improvement over the old system!! Thanks again to Bill for forwarding this on to me.

The Eau Claire Leader and Telegram had an article on the WSP and its use of motorcycles, Mustangs and planes. The Mustang is a clear top, which according to the article increases the top speed 10 MPH and adds about 4 MPG onto the fuel economy. The top speed of the car is estimated a 140 MPH. The Harley-Davidson 1380cc unit is used in constructions zones and busy areas where traffic tends to get backed up. The unit is equipped with a radar unit, but does lack a lot of the first aid equipment normally carried by troopers.

District 6 uses a 1977 Cessna 172 airplane for speed enforcement. The WSP has been using planes for about 25 years. VASCAR is used for speed clocking, and the plane is also used for searches.

I received a letter from Bob (WI-101) who now lives in Minnesota. Bob sent along some WI DNR information, and also a frequency layout for the WI division of Emergency Government. Because of space I will have to do that next month. Also letters and frequencies were sent in by Tom (MI-216), Ernst (WI-024), and Bob (WI-104) that will have to wait until next month due to space. Thanks to all who wrote.

That's all for now. Monitoring.... Rich

PUBLIC SAFETY—NORTH EAST

Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows—New England States, New York, Pennsylvania, New Jersey, Maryland, Delaware, and District of Columbia:

Gary Saffer, 6 Roach Road, Stoughton, MA 02072

Hello, and welcome to the February edition of PSNE. Not too much for me to say this month and we have a lot of input from the AE's, so without further ado on to the Associate Editors reports.

Connecticut, Stephen Repetto, 42 Glenstone Dr, Vernon, Ct 06066-4302

Here is the third part of John's (NY-308) Connecticut list.

Groton Fire Alarm
33.92 Fire Dispatch 47.50 Ambulance Dispatch
Center Groton Fire Dept. City of Groton Fire Det. *Electric Boat FD
Groton Ambulance Groton - Long Point Fire Dept. Mystic Fire Dept.
Mystic River Ambulance Assoc. Noank Fire Dept. North Stonington FD
Old Mystic Fire Dept. Poquonock Bridge Fire Dept. Sub. Base Fire
* Ship Yard where many submarines are built, hence the name

Norwich Fire Dispatch "Station N"
33.90 Dispatch
Baltic Fire Dept. East Great Plains Fire Dept. Norwich Fire Dept.
Occum Fire Dept. Poquetanuck Fire Dept. Preston Cty Fire Dept.
Taftville Fire Dept.

City of New London Fire Dept. "Station A"
33.94 Dispatch and Fireground

Quinebaug Valley Emergency Dispatch "Station QV"
33.80 Dispatch 33.90 Fireground/Mutual Aid
Griswold Fire Dept. Jewett City Fire Dept. Lisbon Fire Dept.

Town of East Lyme Communications Center "Station B"
33.96 Dispatch
Flanders Fire Dept. Niantic Fire Dept.

Thank you, John for a well researched piece of information.

From John (CT-097) Waterford Fire is now using 33.94 instead of 33.96 New London Fire appears to be using 453.900 instead of 33.94. john also sends in a list of CMED designator for the New Haven area.

New Haven CMED Agency Designator

Alpha	New Haven Fire Dept.	Kilo	Storm Ambulance
Bravo	Ansonia Volunteer Amb	Lima	Bethany Vol. Ambulance
Charlie	New Haven Ambulance	Mike	North Haven Fire Dept.
Delta	Hamden Fire Dept.	November	New England Ambulance
Echo	West Haven Fire Dept (4E2, 1E4, 1E5)	Papa	Hunters Ambulance (5E1,
		Quebec	East Haven Fire Dept.
Echo	Connecticut Amb. (Units 3,7,8)	Sierra	Clinton Vol. Fire/Amb
		Tango	Seymour Volunteer Ambulance
Gulf	Milford Fire Dept. (5G1)	Victor	Shelton Volunteer Amb.
Gulf	Chamberlain Ambulance (Units 2,3,4)	Whiskey	Wallingford Ambulance
		Xray	Madison Volunteer Amb.
Hotel	Branford Fire & Ambulance	Yankee	Guilford Ambulance
India	N. Branford Fire (1I1, 1I2, 1I3)		

Julliette Oxford Ambulance
Zulu Valley Paramedic Unit (Ansonia, Seymour, Shelton, Derby, Oxford)
1xx Designates non-transporting unit usually staffed by EMTs
2xx Designates transporting unit staffed by EMTs
3xx Designates non-transporting Heavy Rescue Unit
4xx Designates * transporting unit staffed by EMT-Is
5xx Designates * transporting unit staffed by Paramedics
* may or may not transport depending on the service
Note: 1Q1 East Haven Fire Rescue non transporting
2E3 Conn. Ambulance Transporting unit EMT Staffed
3K18 Derby Fire Dept. Rescue non transporting
4M1 North Haven Fire non transporting EMT-I unit
5C9 New Haven Ambulance transporting Paramedic unit

Maryland, William Staubs, 756 221st St, Pasadena, MD 21122

Lou (NJ-253) who was recently vacationing in Maryland has come up with some info for Cecil County Fire/Rescue. The info includes codes, Station Ids and frequencies.

10-1 Fire Under Control
10-2 Arriving at Scene, Condition
10-3 Go ahead with message
10-4 Acknowledgement
10-5 Relay message to _____
10-6 Stand by
10-7 Back in Quarters
10-8 In Service, Responding
10-9 Repeat Message Slowly
10-10 Report of Accident
10-11 2nd Alarm in your district
10-12 Call Cover Up Company in
10-13 Weather and Road Conditions
10-14 Request Fire Marshal at scene
10-15 Dispatch nearest Amb to scene
10-16 Dispatch nearest Res to scene
10-17 Send Coffee and Food to scene
10-18 Dispatch Tank Truck to scene
10-19 Returning to Station
10-20 Location of Emer. or Equip.
10-21 Contact Dispatcher by phone
10-22 Disregard
10-23 Notify Coroner to Respond
10-24 Need more Manpower
10-25 Sound General alarm
10-26 Send Fire Police to scene
10-27 Notify State PD to respond
10-28 Notify C.D. PD to respond
10-29 Release Standby Crew
10-36 What is correct time
10-37 How do you copy me
10-38 Receiving Poorly
10-39 Receiving Well
10-40 Notify C.D. Authority
10-79 Routine Ambulance Transport
10-80 Back Injury
10-81 Psychiatric Patient
10-82 Communicable Disease
10-83 Head, Neck, & Face Injury
10-84 Seizure
10-85 Natural Illness
10-86 Possible Drowning
10-87 Stabbing, Shooting etc,
10-88 Poison or Od
10-89 Severe Burns
10-90 CPR being performed
10-91 Possible DOA
10-92 Possible Internal Injuries
10-93 Fracture Limb
10-94 Miscarriage
10-95 Emergency Maternity
10-96 Notify Hospital
10-97 Severe Bleeding
10-98 Stroke Victim
10-99 Heart Attack Patient
10-100 Clear Air for Emergency

Cecil County Fire/Rescue frequencies

F-1 46.18 F-2 46.26* F-3 46.54 F-4 46.40
Sheriff 33.94 County Government 33.90 EMS 33.98
Chester Fire 33.96 (33.90??) Harford County Fire 460.600 & 33.74
New Castle County Delaware 33.78
* new channel 2 old channel 2 is now channel 4

Cecil County station locations

Station	Station	Station
1 Cecilton	5 Charlestown	9 Hacks Point
2 Chesapeake City	6 Perryville	11 Perry Point
3,13,14 Elkton	7 Port Deposit	12 Singer
4 Northeast	8 Rising Sun	

Once again Lou has come up with some really good info. Thank's Lou for some good work.

From an anonymous member we have some Wicomico County Sheriff/Police frequencies.

WICOMICO COUNTY SHERIFF
Ch 1 453.750R Pl 103.5 Dispatch
Ch 2 453.750S Pl 103.5 Car to Car
Ch 3 460.5625S Pl 141.3 Court Security
Ch 4 460.5125R Pl 123.0
460.250R Pl 141.3 Wicomico Detention Center

Salisbury Police Dept.
Ch 1 460.075R Pl 141.3
Ch 2 460.375R Pl 141.3
Ch 3 460.475R Pl 141.3
Salisbury/Wicomico Airport 453.200R 146.3

That's all for this month.

Massachusetts, Mariner S. Ayer Jr. 299 Thompson ST, Middleboro, MA 02346

Jim (MA-222) wrote in to request the TAC 3 frequency for N. Andover Police. Jim I believe it's 482.6375. Speaking of frequencies the Channel 16 frequency for Cambridge Fire is 852.2625. J Marques (MA-223) has sent in a considerable amount of information about Boston College which is located in Boston and Newton MA. The information includes frequencies, callsigns and some codes.

B.C. Police "K" codes
K-2 Call Headquarters K-4 Request for Lunch K-7 Return to Headquarters
K-15 Allow ____ to be allowed on Campus K-21 Pick up_____ at _____
B.C. Police Units
"B.C. Control" Headquarters
411,412,414,415,417,419 Mobile Patrol Units B.C. Escort Van van used to transport people to and from remote areas of the campus B.C. Medical Van Van used to transport sick or injured people to college health services and local hospitals.

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MA-029

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U16287

Paid Advertisement

Maintenance Unit Ids
"B.C. Base" Dispatch for all plant services

B.C. 1 Manager Custodial Dept.
B.C. 2-5 Custodial Supervisor
B.C. 6 Lead Custodian
B.C. 7 Assistant Director
B.C. 8-10 Custodial Supervisor
B.C. 11,12 Custodian
B.C. 13-16 Lead Custodian
B.C. 17 Custodian
B.C. 18 Director of Housekeeping
B.C. 19 Custodial Supervisor
B.C. 20-22 Lead Custodian

B.C. Frequencies

471.6125	Buildings and Grounds (old)
464.375	Housing F-1
483.0375	Buildings and Grounds
472.1375	Boston College Police
464.575	Gate Attendant and Housing F-2
472.2625	Dining Service
469.2625	Athletics
151.625	Special Events
154.570	Special Events
154.600	Special Events
464.500	Special Events
464.550	Special Events
462.575	Special Events

Eagle 1 Construction Project Manager
Eagle 2 Carpentry Foreman
Eagle 3 Electrical Foreman
Eagle 5 Lead HVAC Mechanic
Eagle 6 HVAC Foreman
Eagle 7 Supervisor Grounds Maintenance
Eagle 8 Plumbing Foreman
Eagle 9 Electrician
Eagle 10 Lead Electrician
Eagle 11 HVAC Mechanic
Eagle 12, 14 Lead Groundsperson
Eagle 15 Electrician
Eagle 16 Lead Electrician
Eagle 17,18 Lead Carpenter
Eagle 19 Lead Locksmith
Eagle 20 Associate Director
Eagle 21 Grounds Foreman
Eagle 22 Trade Shop Superintendent
Eagle 24 Electrical Truck
Eagle 25 Electrician
Eagle 26,27 Plumber
Eagle 28 HVAC Mechanic
Eagle 29 Electrical Foreman
Eagle 30 Secretary
Eagle 31 Athletic Facilities Manager
Eagle 32 Architecture Project Manager
Eagle 33 Director
Eagle 34 Assistant Director

From Jon (MA-227)some frequency updates. Somerville Fire Ch-1 483.3875 Ch-2 483.2625 Ch-3 483.2875 Ch-4 483.4125 (Arson) Pl is 131.8. Salem Fire 483.4625 Pl 146.2 Concord Fire Ch-1 483.0625 Ch-2 483.3625 Ch-3 483.4625 Pl 250.3 Jon also reports that Logan Airport Fire can be heard more often than before on 854.9625. Thank's Jon.

Maine, Position Open

From Gregory (ME-019) some corrections to earlier frequency information from the October issue. Debago Lake should have been Sebago Lake, Brighton, ME Fire is 154.235 Primary, 154.310 is used for state fire. 159.240 is used in various state parks, 155.625 is used by Cumberland County Sheriff and some of the local towns as a secondary channel, 155.535 is Region 2 in the Cumberland County area, and some of the local towns use it as their F-3 as well. Thank you for the information Gregory.

New Hampshire, Position Open

From Lohr (PA-178), who seems to get around a lot comes some New Hampshire information.

Grafton County Police Net

Frequencies

F-1 (A) 155.250
F-2 (B) 154.770R
F-3 (C) 155.850
F-4 (D) 156.090
F-5 (E) 155.490
F-6 (F) Optional
F-7 (G) 155.595

Grafton County Sheriff	80 series	Plainfield	500 series
Hanover	100 series	Lyme	600 series
Lebanon	200 series	Orford	700 series
Enfield	300 series	Piermont	800 series
Canaan	400 series	Dartmouth College (Hanover) Campus	300s

Town Constables 1-79

Littleton	11	Grafton	60
Woodstock	36	Hebron	67
Bridgewater	41	Waterville Valley	68
Haverhill	55	Plymouth	76

Chiefs use "A" suffix State Police use "SP" plus car number on net
Thank's Lohr, maybe this will stimulate some interest from New Hampshire members.

New Jersey, Richard D. Prail, PO Box 1274, West Caldwell, NJ 07007

From Lou (NJ-253) comes some Middlesex County information.
County Sheriff Ch. 1 155.655 R Base is 600 Field units are 6xx

County Jail 154.650 County Fire Main frequency 33.82
County "hotline" frequency is 453.475R included on the system are Rutgers Univ. and Middlesex County College.
Middlesex County College 153.785 Units are 1xx
Rutgers Univ. Ch. 1 155.820 Ch. 2 155.685 R
Rutgers Univ. Ids 4 Golf 17 Busch Campus 2 Golf 15 College Ave.
3 Golf 1 Alpha, Bravo, Charlie Douglas Campus 3 Sierra 1 Stables
3 Mike 1 Mounted Unit 5 Golf 12 Livingston Campus 3xx Captains and Sergeants 10-40 Go to Ch.1
The Piscataway Campus of Rutgers uses a private security company operating on 464.375 R.

North Brunswick	Police	460.175R	460.225R	Fire 33.82	33.92
Old Bridge	Police	460.375R			
Perth Amboy	Police	453.435R		Rescue	155.220
Piscataway	Police	158.730	158.820	Fire 33.82	
Plainsboro	Police	476.8125	(500 series)		
Sayreville	Police	460.250R		Fire 33.82	
South Amboy	Police	155.730			
South Brunswick	Police	453.100R	453.750R		
South River	Police	155.610	154.725		

Lou would also like to know if any NJ members have heard activity on the NJSP frequencies of 856.4625, 857.4625, 858.4625, 859.4625, and 860.4625. If so write to me (Richard) and I will pass the info on to Lou. Thank you for the information Lou.

That's all from New Jersey for this month.

New York City, Phil Caruama, 7225 73rd St, Glendale Queens, New York, NY 11385

Here is some more information regarding NYC transit and rail operations.

470.3875R Community Repeater used by the Power Section in Manhattan
160.845 IMD, BMT, IRT Yard Operations
160.395 Coney Island Yard Tower A
160.895 Coney Island Yard Tower B
161.875 Coney Island Yard BMT/IMD
160.845 South Brooklyn Railroad Freight
156.105 Maintenance of Way Signals
470.4875 Maintenance of Way

New York State, Joe Nooney, P.O. Box 30, Valatie, NY 12184

From Lohr (PA-178) a few items. The New York State Game Wardens recently got new programmable radios and have added the local state police and county frequencies. On NYSP channels they Id as 7N-xxx, the last three digits being their regular EnCon Id. Game Wardens have been heard talking to Vermont State Game Wardens on 159.405R which is Vermont's EnCon frequency. Finally Lohr reports that the NYSP Troop B BCI is still on 155.565, but that many others are using SP frequencies licensed in other parts of the state as "tactical" frequencies and so listening to other SP frequencies may prove helpful. Thank's again Lohr.

OSWEGO POLICE DEPT. TEN CODES

Channel 1 155.130 Channel 2 155.370 Channel 3 154.115
10-1 thru 10-9 are APCO Standard codes
10-10 Burglary in Progress
10-11 Robbery in Progress
10-13 Escort At _____
10-14 Shoplifter at_____
10-15 Prisoner in custody
10-16 Pick up
10-17 Accident At _____ (PI,PD, H and R)
10-20 Location
10-25 Family Trouble
10-28 License/Motor Veh. Data
10-29 Any want or warrant?
10-40 Sudden death
10-45 East beat extension
10-50 Silent Alarm (Local Use)
10-55 Intoxicated
10-100 Alarm at _____

OSWEGO COUNTY FIRE 10-CODES

Channel 1 46.10 Channel 2 46.22 46.12 Command 46.28 Fire Police
45.88 Intercounty Mutual Aid

10-1 Ambulance needed
10-2 Police needed
10-3 Possible drowning
10-4 Acknowledge
10-5 Suspicious fire
10-6 D.O.A.
10-7 Out of Service
10-8 In Service
10-9 Minor Fire
10-10 Major working fire
10-17 Arriving at hospital
10-18 Leaving hospital
10-19 Reduce speed
10-22 Call Control by phone
10-23 Radio contact in mobile
10-24 Back at Station
10-41 Public Health Nurse needs help
10-80 MVA personal injury
10-81 Full dress uniform funeral/wake or parade detail

10-13 Send Cause and Origin Team
10-14 Send Coffee to scene
10-15 Arrived at scene
10-16 Enroute to Hospital
10-1A Alcohol related
10-1D Drug related
10-1S Suicide
Signal 75 Emergency Clear the Airwaves

Oswego County Fire Car/Unit designator

OS-100 Coordinator
OS-200-500 Deputy Coordinators
OS-600-900 Inspectors/Investigators
38-Car 1-10 Dispatchers
38-MC1 Mobile Cascade System
OS 10 Investigators
OS-24 Investigators
Car 10,13,5 Investigators
State Car 13 State Representative
1872 Oswego County Building Inspect.
Charley 1 Sheriff's helicopter
H-1,2 Health Dept.
OS-CD 801 Civil Defense
OS-CD 802 Civil Defense

OSWEGO COUNTY FIRE SERVICE AMBUALNCE TO HOSPITAL CODES

Southern Oswego Volunteer Ambulance Corps (SOVAC) 45.92 45.96
Mcfee Ambulance 45.92 45.96
North Shore Ambulance 45.92 45.96

10-15 Cardiac Arrest
10-16 Coronary suspected
10-17 MVA
10-18 Drowning
10-19 Overdose (Alcohol or Drugs)
10-20 Present Location
10-21 Burns (State Degree and extent)
10-22 Smoke inhalation
10-23 Birth
10-24 Miscellaneous (Specify)

STATE UNIVERSITY OF NEW YORK AT OSWEGO

STUDENT ASSOCIATION VOLUNTEER AMBULANCE CORPS. (SAVAC)

Channel 1 155.295 Dispatch
Channel 2 155.340 Hospital
Channel 3 154.115 Campus Security

10-1 Arrival
10-2 Request Police
10-3 Assignment complete
10-4 Message Received
10-5 Suspicious fire
10-6 Dead On Arrival
10-7 Out of Service
10-8 In Service
10-9 Enroute to _____
10-10 Major Fire
10-11 Notify office on Call
10-12 Notify Niagara Mohawk
10-13 Notify security Office
10-14 Destination is _____
10-15 Cardiac Arrest
10-16 Coronary Suspected
10-17 MVA
10-18 Drowning
10-19 Returning to base
10-20 Burns
10-21 Call by phone
10-22
10-23 Birth
10-24 Miscellaneous
10-25 Repeat Message
10-26 Notify Medical Dept
10-28 Location is _____
10-29 False Alarm
10-30 Driver Training
10-31 Dinner
10-32 Blood Run
10-33 Go to Administration
10-34 Dry Run
10-35 Ambulance Unattended
10-36 Ambulance Reattended

Code 1 No Lights or Siren
Code 3 Lights and Siren

Pennsylvania, Keith Maydak, 6393 Penn Ave, Pittsburgh, PA 15206

From Tony Orelik we have a number of PA fire department frequencies. Allegheny County 33.66, 33.76, 33.80, 33.86, 33.92 Armstrong County 46.16, 46.38 Beaver County 46.50 Beaver Falls 154.250 Carnegie 155.100 Duquesne 155.385 Edgewood 155.955 Fayette City 33.98 Fayette County 33.70, 33.50 Greensburg 154.250, 154.415, 153.950 Mckeesport 155.760, 155.535, Munhall 153.890, Pittsburgh 154.130, 154.445, 154.325 Uniontown 33.70, 33.50 Washington County 46.46, 46.44, 46.12 West Homestead 153.890 West Mifflin 154.250 Westmoreland County 33.70, 33.52, 33.56, 33.60, 33.64 Wilkins Township 46.56, 46.10 Wilkinsburg 155.955
Also from Tony some various other frequencies from the Pittsburgh area City of Pittsburgh: Water Dept. 47.920 Housing 453.950 Streets 155.880 Sanitation 46.52 Water Works F-1 155.880 F-2 154.325
Sheriff: F-1 473.3125 F-2 470.3375 F-3 476.3625 Ch 1 470.1375 C-1 470.4125 C-2 470.4375 Tac 470.4875
State Parks F-1 151.385 F-2 151.935
Allegheny County: Police 470.3125, 470.3375, 470.3625 Parks 44.96 Housing Authority 155.985, Maintenance (shared with Pittsburgh) 37.18 Sanitation 46.52 Highway Maintenance and Traffic 47.300, 37.98 Public Works F-1 453.800 F-2 453.825 F-3 453.875 F-4 453.900
Pittsburgh area school security F-1 154.600 F-2 154.515 F-3 462.550 F-4 155.115

Vermont, Dan Gilman, 123 Walnut St, Rutland, VT 05701

All I have this month is the Statewide County Sheriff frequency which is 460.450.

That's all for this month, Goodbye.

Send Public Safety and Special Emergency frequencies, radio system details and questions for Alaska, Arizona, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming to:

George N. Hoggatt, 17473 E. 16th Dr., Aurora, CO 80011

ELECTRONIC MAIL: COMPUSERVE > 71077,2554; DELPHI > JORG

****

A little editorial comment about radios and TV prop men. On the ABC Saturday Night movie, they show Jaclyn Smith talking on a mobile phone with both an antenna and a cord to the base unit. To top it off, they have the Police Detective break in on the conversation because he just happened to be listening and I guess to them, radio is radio. I think the FCC might frown on the police breaking in on cellular conversations not even considering that it is illegal to listen to them. And how did he find her out of those 600 cellular channels? Just lucky I guess. On "In the Heat of the Night," even though Sparta is a small town, the chief of detectives has a cellular phone antenna on his car. Not sure why, I think a police radio might be more appropriate. But again, they don't know the difference.

****

ALASKA

associate editor needed

NOTHING THIS MONTH

****

ARIZONA

Bob Schmulian, 4415 N. Rockcliff Rd., Tucson, AZ 85715

As with most of the Associate Editors, Bob is yelling "HELP!" I'll say it again, but we cannot do the magazine without your help. Bob has a list for Tucson on the RCMA data base, almost 200 frequencies most of which are verified. Bob will help if you need it. Send an SASE with your request and add a few of your favorite frequencies for the column while you're writing. The continuous coverage hand held scanner is in EEB's new catalog with an estimated price of $450. I don't know about you but I want one. Daryll, a member from Ohio, is working on a military list. Bob has sent his and if you can help, you might contact Daryll through the club (I don't have his address). Bob is working on a Mall frequency list for Tucson. Again if you can help, contact Bob.

TUCSON POLICE (from Bob)

154.475 *
155.190 helicopter, repeater input **
155.010 F1 southwest area
158.730 F16, F6/in detectives
155.730 F2 northwest area
154.755 F7 tactical and surveillance
159.150 F7 in detectives **
155.970 F8 detectives **
156.150 F9
154.815 TAC 11 active with non-tac traffic
154.875 TAC 12 *
154.725 F3 central area
155.490 F4 east area
159.210 F4/in
156.030 F5 detectives *
155.850 F6 air, car to car, detectives
155.640 TAC 1 and F1/in
159.030 TAC 2 and F2/in
158.850 TAC 3 and F3/in

** little to no activity*

*** inactive as far as Bob can tell*

****

COLORADO

George N. Hoggatt, 17473 E. 16th Dr., Aurora, CO 80011

From the City and County of Denver 1990 budget:

District Attorney –	14 Police car radios
	19 portable car radios with chargers
Manager of Safety –	Public Safety Communications Center ($1,100,000)
	Receiver/decoder console (replacement)
General Services –	Communications installation ($150,000)
Wastewater –	Wall mount radio station
	10 portable radios with auxiliary equipment

Stapleton Airport – Radio tower 41 radios with chargers
Command post upgrade
Communications Center upgrade
Trunked control station
4 intercoms with radio access

COLORADO DEPT OF HIGHWAYS – COLORADO STATE PATROL WEATHER CODES

CODE 1 Restricted due to winds
2 Poor visibility dust/snow/fog
3 Dry
4 Wet
5 Rain
6 Snow
7 Slushy
8 Icy
9 Icy spots
10 Snow packed
11 Snow packed spots
12 Slide rock/snow/mud
13 Closed
14 Drifting snow
15 Adequate snow tires or chains
16 Chains only

The Highway Department, Denver and Thornton have installed ice sensors at several locations in Denver. These feed into a system at Section 8 at 2000 S. Holly in Denver along with radar and weather forecasts to enable them to call out sanding equipment when needed instead of having people out just in case. The equipment reports surface conditions (ice or water), road temperature, chloride factors (salt), wind speed and direction, air temperature, humidity, moisture content falling and dew point. The computer keeps the last 14 readings and plots them on a graphic display. The data is sent via radio on 173.390. The locations are:

Santa Fe Drive at Evans
Walnut Street Viaduct east of I–25
I–70 at Washington Street
I–70 at Colorado Blvd.
"Outer Loop"
I–25 at C–470 south of Denver
C–470 at Wadsworth Blvd. in Douglas County
C–470 at I–70 near the Dakota Hogback
I–25 at S.H. 7 (168th ave) north of Denver
I–70 at Chambers Road in Aurora

****

HAWAII

associate editor needed

NOTHING THIS MONTH

****

IDAHO

George Wight, P.O. Box 732, Groveland, CA 95321

NOTHING THIS MONTH

****

MONTANA

associate editor needed

NOTHING THIS MONTH

****

NEVADA

Fred McGowan, P.O. Box 879, Las Vegas, NV 89101

Fred needs help too. Almost the only Nevada ever seen here is from Fred. Fred did arrange a local group and they toured the Las Vegas Metro PD Communications Center. If you are interested in being a member of this group (very informal), contact Fred.

UNIVERSITY OF NEVADA – LAS VEGAS (from Fred)

453.225 (R) Police Ch. 1 also used at the Silverbowl
453.225 (S) Police Ch. 2
453.575 may be used by UNLV PD
159.150 (R) Las Vegas Metro PD Ch. 1. UNLV call is 9936
453.875 (R) (S) Thomas & Mack Arena

****

NEW MEXICO

associate editor needed

NOTHING THIS MONTH

****

OREGON

Al Musgrove III, 2402 McAndrews Rd., Medford OR 97504

NOTHING THIS MONTH

****

UTAH

John Parken, 4672 S. Deer Creek Rd., Salt Lake City, UT 84124

John has confirmed the new Utah Highway Patrol frequencies in the Salt Lake area. Dispatch and mobiles can be heard direct (i.e. simplex) on 155.520. The operation that, for years has been on 155.580, seems to have simply moved to that frequency. The new frequency (155.520) is now the input of a repeater, output 154.905. 154.905 is not licensed to the State of Utah or licensed within the State of Utah, so I assume that it is a newly granted license. Nationally, it is allocated to state police agencies, which is consistent with the current (new) use here. Similarly, the 155.520 frequency is not shown as allocated to the State of Utah in my recent microfiche and "call books." It is allocated nationally as

police which would not be inconsistent with the assignment to a state police agency. The UHF frequency of 460.225 is a Department of Corrections and/or Adult Probation and Parole channel, which is dispatched by the same state personnel from the new multiagency Wasatch Communications Center discussed in earlier letters. Salt Lake County now has the enhanced 911 phone system. This is the system that lets the operator know who is calling even if they can't talk. (Ed. comment – We have that here in Aurora and it works good but has a lot of false alarms. It seems that cordless phones with weak batteries will sometimes start dialing and seems to get 911 a lot of the time. Aurora always sends one police car and one fire truck, non emergency. Usually it is nothing, but sometimes it does save lives. I heard two calls in one evening that were real. A family dispute where the wife was badly assaulted and a rape. If your town doesn't have enhanced 911, see about getting it. It does cost – about 90 cents a month extra but if it saves my life, that is cheap.)

From a source that wishes to remain unidentified, comes a list of all the transmitters on Lake Mountain, an 8,000 foot peak just west of Utah in Utah County about 35 miles due south of Salt Lake City. Much of what is listed here is business and the frequencies that the club has agreed not to publish but I will use what I can.

47.180 Department of Transportation
48.300 Metro Water
151.085 Department of Transportation
151.370 Forestry and Fire
153.950 Utah County Fire
154.280 SLC Fire (future)
154.860 Utah County Sheriff
155.340 Emergency Medical Services
155.505 Highway Patrol (statewide one)
155.625 Highway Patrol
155.895 Motor Vehicles
156.135 Utah County Roads
435.150 University of Utah
453.900 Utah County Paging

****

WASHINGTON

Kenneth E. MacLeod, P.O. Box 2495, Friday Harbor, WA 98250

CORRECTIONS/ADDITIONS to the November issue from Mike (WA-106):
Seattle Police F-7 is 460.250 car to car/detectives/swat
Seattle Fire F-5 should be 453.025
The data marked "more Seattle from unidentified member" on page 64 should be Spokane area.

GRANT COUNTY (Darrell WA-080)

151.460 Washington State Police
154.755 WSP
154.770 WSP
155.320 WSP LEARN
155.475 WSP NLEEC
155.970 Washington Fish and Game
158.790 Washington Fish and Game
159.075 WSP
154.800 WSP Ephrata base
155.505 WSP Ephrata base
154.935 WSP Wenatche base
155.700 Grant County Sheriff
154.830 Grant County Sheriff TAC
156.150 Grant County Sheriff all cities
460.500 Grant County Law Net
155.430 Moses Lake Police
155.280 Moses Lake Hosp.
155.295 Life Guard Heli/ Eastern State Hosp.
155.220 Central Washington Hospital/ Warden School Dist.
155.175 Ephrata Hosp.
47.660 Quincy Hosp & School Dist.
155.400 Moses Lake Hosp.
154.085 Grant County Public Works
158.130 Grant County PUD
158.760 Grant County mosquito control
158.790 Warden Police
158.850 Quincy Police
155.145 Grand Coulee Police
154.725 Ephrata Police
154.785 Ephrata Police
158.910 Ephrata/Soap Lake/ Warden/Royal City Police
154.190 Grant County Fire F1
154.235 Grant County Fire F2/Moses Lake
154.325 Grant County Fire/ Othello/Districts 11, 6
153.845 Grant County Fire repeater
154.130 Ephrata Fire
153.905 Warden City Govt.
154.070 Matawa Dist 8 fire
155.340 HEAR
153.740 Grant County
154.055 Moses Lake PUD
155.025 Moses Lake Port
156.240 Moses Lake
158.835 Ephrata Public Works/PD
153.980 Ephrata Port
158.925 Quincy Public Works
153.755 Coulee City
155.145 Grand Coulee City and PD
151.280 Steamboat Rock State Park

****

WYOMING

Christopher D. Smith, P.O. Box 12457, Ogden, UT 84412
NOTE THE NEW ADDRESS FOR CHRIS.

Unverified microfiche listings from Chris:

Transmitter site – Afton:
153.740 Lincoln County local govt.
154.055 Lincoln County local govt.
154.445 Afton Fire
154.680 Wyoming State Patrol
154.875 Wyoming State Patrol
154.980 Northern Lincoln County local govt.
155.100 Northern Lincoln County local govt.
154.280 Star Valley Hosp.
155.340 Star Valley Hosp.

Transmitter site Alpine:
155.955 Northern Lincoln County local govt.

Transmitter site Kemmerer:
153.740 Lincoln County local govt.
154.055 Lincoln County local govt.
154.415 Kemmerer Fire
154.875 Wyoming State Patrol and Lincoln County Sheriff
154.965 Kemmerer local govt.
155.340 South Lincoln Hospital

155.430 Lincoln County Sheriff
155.445 Wyoming State Patrol
155.640 Wyoming State Patrol
155.955 Northern Lincoln County local govt.
156.105 Wyoming State Highway Dept.
158.790 Lincoln County Sheriff

155.430 Lincoln County Sheriff
155.445 Wyoming State Patrol
155.640 Wyoming State Patrol
156.105 Wyoming State Highway Dept.
159.210 Lincoln County Sheriff
462.500 South Lincoln Hospital

1990

27th YEAR

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PUBLIC SAFETY—CALIFORNIA

Editor: Dan Figueroa, CA-LA-359,
P. O. Box 2895, La Puente, CA 91746

Was anyone confused by the sequence of material found on pp 61–2 of this column last month? Join the crowd, then; the pages were pasted up in reverse order. Apologies, PS-CAL readers (and editor!)

Welcome to PS-CA for February 1990 (we still haven't gotten used to typing the New Year!) We've got lots to cover, so will restrict routine traffic on all frequencies and switch to...

DATA CHANNEL SOUTH: We have received several inquiries for the full LASD 482 MHz channel plan. Since the new system has not been fully implimented (we hear there are still some problems which may cause some rearrangement of stations and bureaus), we will present what is currently on-line. Repeater and direct (simplex) modes can be used.

PATROL BUREAU DISPATCH FREQUENCIES:

483.9875R	Dispatch	1	Altadena-7, Crescenta Valley-12
483.3625R	Dispatch	2	NOT IN SERVICE
483.2125R	Dispatch	3	East LA-2, Firestone-1, Lynwood-25
483.2625R	Dispatch	4	NOT IN SERVICE
482.8625R	Dispatch	5	Santa Clarita-6, Antelope Valley-11
482.9375R	Dispatch	6	Walnut-29
484.0375R	Dispatch	7	Lennox-3, Lomita-17
483.6875R	Dispatch	8	Industry-14
484.1625R	Dispatch	9	Carson-16
482.9125R	Dispatch	10	Malibu-10, Marina-27, West Hollywood-9
482.9875R	Dispatch	11	Temple-5
483.4375R	Dispatch	12	NOT IN SERVICE
483.7625R	Dispatch	13	Norwalk-4, Pico-15
483.1375R	Dispatch	14	Lakewood-13

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PAID ADVERTISING

NOTE: Dispatch 2 may be assigned to West Hollywood Station; Dispatch 4 may be assigned to Firestone and Lynwood Stations; and Dispatch 12 may be assigned to Lomita Station and/or Avalon Station.

LOCAL TACTICAL FREQUENCIES (L-TACT): These are for car-to-car and car-to-desk communications (replacing the old "Charlie" and "Henry" freqs). There may be several stations assigned to one L-Tact:

483.9125R	L-TACT	1	Marina
482.8875R	L-TACT	2	Lennox, Lomita
483.3875R	L-TACT	3	Lakewood
483.9625R	L-TACT	4	Industry
483.4625R	L-TACT	5	Carson
483.4875R	L-TACT	6	East LA, Firestone, Lynwood
483.2375R	L-TACT	7	Temple, Walnut
483.1125R	L-TACT	8	Santa Clarita, Altadena, Antelope, Crescenta
483.8625R	L-TACT	9	NOT IN SERVICE
484.0125R	L-TACT	10	Norwalk, Pico

NOTE: L-Tact 9 may be assigned to Firestone and Lynwood Stations. Malibu and West Hollywood Stations are using A-Tact 2 for car-to-car, but may be assigned to L-Tact 1.

AREA TACTICAL FREQUENCIES (A-TACT): These freqs are for special operations and assignments. In the event, a freq must be restricted for an extended period of time, an A-Tact freq will be used:

483.0875R	A-TACT	1	North County Area
483.1625R	A-TACT	2	West County Area (Temporary MAL & MDR car/car)
483.0125R	A-TACT	3	East County Area
484.1125R	A-TACT	4	South County Area

COUNTYWIDE TACTICAL FREQUENCIES (C-TACT): These freqs are also for special operations (usually mutual aid involving several stations) and for want/warrant checks of suspects/subjects (replacing the old "Nora" "Edward" and "William" freqs):

482.8125R	C-TACT	1	North Bureau Stations
482.8375R	C-TACT	2	West Bureau Stations
483.0625R	C-TACT	3	East Bureau Stations

MUTUAL AID FREQUENCIES (M-AID): By July 1990, all police agencies in LA County will be on-line for use of 1 or more mutual aid channels with LASD units and/or stations. This is an attempt to provide common mutual aid channels between LASD and other police agencies:

483.5875R	M-AID	1	North County
484.0875R	M-AID	2	West County
483.7875R	M-AID	3	East County
484.1375R	M-AID	4	San Gabriel Valley
484.0625R	M-AID	5	Central County

COUNTYWIDE DETECTIVE FREQUENCIES: Used by specialized detective teams, including surveillance operations. Each channel is known as "Investigative" followed by the channel number:

483.3125R	INV-1	Countywide
483.3375R	INV-2	North County Area
483.8125R	INV-3	West County Area
483.6125R	INV-4	South County Area
483.7375R	INV-5	Southeast County Area
483.6625R	INV-6	Central & Metro LA Areas
483.5125R	INV-7	East County Area

MISCELLANEOUS FREQUENCIES: These freqs are used for various other operations:

483.2875R	ETD	Emergency Trigger ("Help" Signalling Device)
483.5625R	SRC ACC	Access Channel to SRC
483.5375R	SUD	Special Unit Dispatch (SEB and Aero Bureau)
483.7125R		Main County Jail/Custody Division
483.9375R	CSB	Court Services
483.6375R	PR-1	Mobile Repeater ("Portable Repeater 1")
483.8375R	PR-2	Mobile Repeater ("Portable Repeater 2")
483.8875R	SV-1	Special Operations
482.9625R	SV-2	Special Operations
483.4125R	SV-3	Special Operations

From JACK [CAOR-333]: In the past couple of months, he has noticed unmistakeable PD aero traffic on 457.600 MHz. The bird is usually coordinating surveillance ops with an unknown number of ground units. No RX on the ground units from south ORCO. On one occasion, the bird ID's as "Eagle". No mystery there. This freq is allocated for low-power Business Radio Service use. The commo seems to be very casual here, even more so than the "White" channel (460.150 MHz). He has also heard activity on NALEMARS (155.475 MHz) as well as DOJ's freq (154.680 MHz) in the south ORCO area.

Jack reports that a freq was submitted a few issues ago on the ORCO freeway callbox system (904.7125 MHz). Although, he hasn't anything on this particular freq, Jack states he hears callbox traffic on the expanded upper regions on the Cellular "B" Band (logging RX on those from I-405 around Long Beach to as far south as Oceanside). Jack adds that Cellular "B" is often a good source of info in times of major incidents. ORCO SO field supervisors and ORCO FD B/C's have cellular phones are part of the vehicle's standard equipment.

During "major-ragers" and other calamitous events in the Southland, the Red Cross can be heard on GMRS 462.675 MHz (Santiago Peak and Oat Mountain) and 462.575 MHz (Sierra Peak). FYI Medix Ambulance can be heard on 936.5125 MHz most of the time. Their old VHF-Hi freq (155.160 MHz) is used as a back-up freq, when the 936 MHz freq is down.

Jack also reports that many Orange County Regional Parks can be heard on 151.160 MHz. Simplex traffic pertaining to park operations, including security may be heard. Numerical designations will be in the 700 series. This is also usually the freq utilized by the Flagmen employed on County EMA roadwork teams. He also suggests listen to the UHF IB offset freqs (adding that patience and persistance pays off

when listening to these).

From BRIAN [CASD-073]: Here is the San Diego SO channel line up:

453.725 S F-1 Car-to-Car
453.750 R F-2 Coastal Dispatch
453.925 R F-3 North Inland Disp
453.500 R F-4 East Dispatch
453.950 R F-5 South Dispatch
453.400 R F-6 Administration
453.575 R F-7 Inquiry
453.100 R F-8 EMERGENCY
453.425 R F- 9 North Tactical
453.825 R F-10 South Tactical
453.425 S F-11 Special Enforcement
453.825 S F-12 Special Enforcement
453.250 Detectives & SWAT
453.975 Detectives & SWAT
45.940 R Lo-VHF Relay to F-4

Brian notes that 453.100 MHz is also the main pager freq for Sheriff Duffy as well as the Special Enforcement Detail & SWAT teams. 453.825 MHz is now being used as an overflow freq for 453.500 MHz. Brian also states that SDSO may have 2 additional detective freqs (453.875 MHz & 453.975 MHz) though no confirmation can be made at this time. Brian also heards SD Marshal warrant service on 159.135 MHz.

From ROBERT [CASD-088]: In response to LAURA's [CASD-078] Inquiry Channel request of December 1989, here is a list of San Diego area lifeguard freqs both city and county:

155.8200 F-1 San Diego County Primary South - Solana Beach
155.9400 F-2 San Diego County Primary South - Solana Beach
153.9950 F-3 San Diego County - Mutual Aid (Blue)
155.0850 F-4 San Diego County - Fire Channel (Red)
453.6500 F-1 San Diego City (Repeater) (input of 458.6500 MHz)
453.6500 F-2 San Diego City (Simplex)
453.3875 F-3 San Diego City (Portables)
453.4125 F-4 San Diego City (Portalbes)
453.4375 F-5 San Diego City (Portables)
154.9950 San Diego City (VHF)
453.5250 Mission Bay Repeater (input of 458.5250 MHz)
453.7750 Point Loma Repeater (input of 458.7750 MHz)
155.8800 Oceanside City
155.7450 Imperial Beach City (shares with Public Works)
45.1200 Del Mar City (shares with Public Works)
154.1150 Coronado City (shares with Public Works)

From MIKE [CARI-011]: Citing congestion on the current VHF-Hi band, Riverside SO has been granted permission by the FCC to obtain 800 MHz freqs for a new radio and MDT system. Riverside County Supervisors awarded a $11.5 million contract to ElectroCom Automation for the devlopment of the new law enforcement system. The system is expected to be in operation by April, 1991 and will be shared between RSO, the County Coroner, the Marshal's Office, and the District Attorney, with expansion capabilities for emergency medical services. Although other agencies in the county have not applied for any 800 MHz freqs, the new system will allow for expansion by these cities. 23 channels will initially be used. (Courtesy of the RIVERSIDE PRESS-ENTERPRISE).

Now let's switch to the DATA CHANNEL NORTH and Gary: I hope you have survived the holidays. Santa brought me a few toys and the new edition of GOVERNMENT RADIO SYSTEMS - 6th Edition. I cannot believe all the changes and new materials. Bob Kelty has again demonstrated that he is truly a communications professional in this new edition. In addition to the frequencies, there is a new format of agency divisions and departments. It is the only source I know of that lists the tone codes. Well done, Mr. Kelty. It's worth waiting for all these months.

Our first item this month, are the listings from JERRY [CAAL-026], who lives in the Bay Area. First I must clear up a typo from the November frequencies from Jerry. The BART Fire Coordination channel should read 154.295 MHz. And now for some of his frequencies:

154.890 Hayward PD Supvrs
154.800 San Leandro PD
154.070 Fire AL CO/HWD/San Lor.
483.1125 Hayward PD 1
483.1375 Fremont PD 1
460.600 Hayward Fire
154.965 Channel Two
33.920 Fire AL CO
482.6625 Hayward PD 2
483.0375 Fremont PD 2

482.4875	Fremont PD TAC	488.4125	Fremont Fire
453.400	Newark PD 1	488.6125	Newark Fire
482.3625	Union City PD 1	488.6375	Union City PD 2
488.6625	Union City Fire	42.760	EBReg Parks PD
154.650	AL CO Sheriff West	155.250	AL CO Sheriff East
155.130	AL CO Sheriff C/C 4	155.955	AL CO Sheriff S&R
154.235	AL CO Fire East	44.640	EBReg Parks Fire

His cover letter carried some information that is very surprising (but confirmed), news concerning major changes for the CHP radio system as they complete their new Communications Center in Benicia. The following will take effect in the very near future. And you heard it here first! Please don't write to me about the typos. These are absolutely correct, including 37.14 MHz! Can you believe this?

Color For Frequencies	Base	Mobile	Locations
Amber	42.080	42.820	Redwood City
Aqua	42.620	42.840	Hayward
Bronze	42.120	42.400	Oakland
Maroon	42.920	42.740	Concord
Orange	42.880	42.660	Napa/Santa Rosa
Pink	42.440	42.760	San Francisco
Ruby	42.500	42.280	San Jose
Turquoise	42.600	42.140	Fairfield
Violet	42.160	42.640	Marin (Corte Madera)
Blue	42.340	37.140	Division Wide (Golden Gate)

Jerry reports that many channels were extremely active during the Earthquake disaster. Specifically he lists some not so common ones:

399.650	CA National Guard Law Enforcement (also 399.700 & 399.750)
852.4875	Alameda County North / Allied Ambulance
935.6875	Alameda County South / Regional Ambulance
854.0125	Medical / CALSTAR / Lifeflight-1
852.2875	Medical / CALSTAR / Lifeflight-2&3
853.7875	Medical / CALSTAR / Lifeflight-4
143.000	FEMA SF Operations-4
148.750	Sixth Army Operations
170.200	Federal Executive Board

In addition to the usual San Francisco Police and Fire channels, the Mayor's Emergency Command Channel on 488.1125 MHz was quite busy!

He also noted the visit of VP Quail's wife. The air traffic control channels and Secret Service channels were in a special mode.

Jerry also noted the many TV and Radio news channels, many of which carry traffic reports and fast breaking news from their helicopters and fixed-wing aircraft. I have not listed them since technically they are not public safety. But I have personally found these channels to be very active with good information during special events. Try finding your local frequencies, usually in the 450.xxx MHz range. Thanks Jerry, for sharing your many hours of monitoring expertise with us.

Several months ago, long time member GEORGE [CATO-001] sent in a nice letter. Well, George, it's a little tardy but here is a list of some of your frequencies from the Yosemite area:

153.800	Sonora City Police	155.715	Secondary Channel
42.520	CHP Base	42.300	CHP Mobiles
46.480	Sonora Fire	151.175	Sonora CDF
155.295	Tuolumne Gen. Hospital	155.400	Secondary Channel
172.650	Yosemite Park Rangers	168.350	Park Search & Rescue
47.620	Curry Co Park Medical	47.580	Secondary Medical
151.685	Curry Co Security	151.895	Channel 2 Security
153.995	Mariposa Co Sheriff	154.890	Secondary Channel
151.460	Mariposa CDF	151.430	Fish and Game
45.320	Calaveras Co Sheriff	45.540	Car to Car
155.670	Calaveras Co Sheriff	151.175	San Andreas CDF
42.560	CHP Base	42.720	CHP Mobiles
44.680	Calaveras State Park	44.880	State Park Net

45.420	Tuolumne Co Sheriff	45.540	Car to Car
154.265	Tuolumne Co Fire TAC	155.160	Search & Rescue
155.595	Tuolumne Co Sheriff's NET	154.920	CLEMARS

George has been monitoring for many years & his files are a reflection of his dedication and curiosity. There are dozens of listings for virtually everyone who uses a radio in the Yosemite area.

Next month we will have two cities profiled: Stockton and Fresno. If you would like your area covered, drop me a line and SASE.

And finally a Special Statewide Informational Announcement: Gary will be assuming the control links next month (going "solo" by the keys of his computer). Until next time, we will release the frequencies back to normal for routine traffic...

RAILROADS

Gary L. Sturm and Bill Farmer, Editors

Send information about railroad frequencies and their uses, radio system details, and related questions to:

Bill Farmer, P.O. Box 1838, Thousand Oaks, CA 91358-0838

Starting off another month of railroad radio news, Don (nonmember) reports that Canadian Railway Museum at Montreal, Que. is using 167.280 MHz, and that Bytown Railway Society at Ottawa, Ont. uses 160.095.

SANTA FE DISPATCHING OFFICES

George (NM-017) sent a newspaper article saying that Santa Fe's New Mexico Division Operations Center in Albuquerque was officially opened November 6, 1989. The 2-story building is located in the Journal Center business/industrial park at 7412 Jefferson NE.

George says he constantly monitors 160.650, 161.370, and 160.260 PBX. He should also be able to hear the La Mosca Peak PBX on 160.245.

Zel (MO-048) reports that 3 or 4 months ago the repeater at La Plata MO stopped IDing as DOC (Director of Communications) Fort Madison and started IDing as La Plata Sub Dispatcher or Kansas City DOC. The communications center at Fort Madison is no more.

Zel told of monitoring conversations when one traction motor of a Santa Fe locomotive locked up at Baring, MO. They had to call out a welder to cut the pinion gear so the unit could be moved to a shop for repair. Flat spots on the wheels also had to be ground out.

Zel also enclosed a newspaper clipping about a training program Burlington Northern has developed in conjunction with Johnson County Community College in Overland Park, near Kansas City.

At 7:00 a.m. on November 8, 1989 Santa Fe opened its California Division Operations Center in San Bernardino. Dispatchers formerly located in the depots at Fresno and San Bernardino moved into the new building, which is located in an industrial park away from railroad property. The dispatchers' territories and radio frequencies were realigned as follows:

Dispatcher 1	Richmond-Kismet	160.650
Dispatcher 2	Kismet-Bakersfield & branches	160.935
Dispatcher 3	Bakersfield-Barstow-Frost (Frost is near Victorville)	160.650
Dispatcher 4	Barstow-Needles Cadiz-Parker & Ripley branch	160.935
Dispatcher 5	Frost-Lambert & branches (Lambert is near Fullerton) San Bernardino-Los Angeles via Pasadena	161.190 160.560
Dispatcher 6	Lambert-Los Angeles-San Diego & branches	160.650

SOUTHERN PACIFIC

Effective October 1 SP reorganized its operating department into 21 divisions instead of the previous 8. These include the Denver & Rio Grande Western Railroad which is now a subsidiary of SP. The list is too long for inclusion in this column but we will offer the information to anyone who requests it and includes a SASE.

Bill (AZ-084) confirms that "WR" in our list of SP dispatcher numbers (November 1989 RR Column) does indeed stand for "Western Region". He also corrected a couple of our listings in Arizona and New Mexico:

WR-58 (old TD3) handles Tucson, AZ (PFE Yard) to Lordsburg, NM along with the Douglas Branch and the Clifton Branch.

WR-57 (old TD5) handles Lordsburg, NM to El Paso, TX along with Wellton to Coolidge, AZ (Phoenix Line) and Tucson to Nogales (Nogales Branch).

The Middle Dispatcher (old TD6) handles El Paso, TX to Tucumcari, NM and is now located in Houston, TX and known as HD-8.

Each CTC Dispatcher has four CRTs at the work station. One green screen with keyboard for the computer-generated clearances, consists, etc.; one color AVTEC that is a "touch" screen for radio communications; and two color screens with keyboard and mouse that replace the old monster CTC machines. One of the screens shows a constant overview of the territory and the other is the work station. The work station screen can call up to 4 regions on the territory and is the place where signals are set and switches thrown by moving the cursor over the device (signal, switch, etc.) to be controlled.

UNION PACIFIC—BAKER, OREGON

by SCOTT (OR-099)

160.290 Baker PBX
160.605 Baker PBX
160.740 Baker, etc. dispatch
161.025 Baker
457.625 Baker
457.650 Baker
457.675 Baker
160.515 Haines road
160.275 RR police

CP RAIL—PORT COQUITLAM, B.C.

from an anonymous contributor via GARY L. STURM (IN-045)

161.475	Ch 1	Road, North Bend to Coquitlam (Cascade Sub.) Mission to Huntingdon (Mission Sub.) Riverside to Roberts Bank (joint track)
161.475/160.425	Ch 3	Dispatcher call in channel 1 territories
161.115	Ch 4	Terminal operations at North Bend and throughout the Coquitlam-Vancouver area
161.325	Ch 5	Dispatcher in channel 1 territories
160.845	Ch 11	MofW, North Bend to Coquitlam Mission to Huntingdon Riverside to Roberts Bank
160.845/160.335	Ch 12	MofW linked-repeaters, North Bend to Coquitlam Mission to Huntingdon Riverside to Roberts Bank Train Lineup broadcasts
160.175	Ch 13	MofW, Coquitlam-Vancouver terminal and on Vancouver Island lines
159.885	Ch 51	Police throughout B.C. lower mainland and on Vancouver Island
160.050	Ch 53	Diesel Shop, Coquitlam Yard area
160.185	Ch 56	Car Shop, Coquitlam Yard, Vancouver Island lines
160.275	Ch 59	Southern Ry. of B.C. dispatcher (formerly B.C. Hydro Rail), for that part of CP's Page Sub. (Livingstone to Pratt) still controlled by Southern Ry. of B.C. Dispatcher (on joint-trackage coal-train route to Roberts Bank).

160.635	Ch 75	Road, all Vancouver Island lines
160.695	Ch 77	Terminal, Roberts Bank (BC Rail), also for the hotbox detector near Roberts Bank
160.725	Ch 78	Transfer 1, Coquitlam-Vancouver terminal area
160.755	Ch 79	Yard 2, Coquitlam-Vancouver terminal area
160.875	Ch 83	Transfer 2, Coquitlam-Vancouver terminal area
160.935	Ch 85	CN 3 for CN yardmaster, for control of joint B-I Line in Vancouver
160.995	Ch 87	Yard 4, Coquitlam-Vancouver terminal area
161.100	Ch 92	BN 1, for BN dispatcher, for control of joint track in New Westminster area
161.145	Ch 93	Yard 3, Coquitlam-Vancouver terminal area
161.355	Ch 99	Yard 1, Coquitlam-Vancouver terminal area
160.035/161.505	Ch 148	Dispatcher, and any other long-range road and MofW communication on Vancouver Island, through repeaters on Mts. Butchart (south end) and Cokely (north end) linked by microwave to CP 260 repeater
161.520	Ch 155	Auxiliary crane, on-site operations
161.520	Ch 161	Carmen repeater in Coquitlam Yard
160.635/161.535	Ch 260	Dispatcher, and any other long-range road and MofW communication on Vancouver Island, through a repeater on Mt. Breton (mid-island) with a microwave link to the CP148 repeaters
414.5375/419.5375	Ch 410	Link between CNCP Telecommunications microwave site on Nanaimo and the Ch 148 repeater on Mt. Cokely (Nanaimo xmit 419.5375, Mt. Cokely xmit 414.5375)

So long for now, until next month... —Gary & Bill

SPORTS COMMUNICATIONS

Send frequencies and other information relating to monitoring sports events to:

Lynn Burke (VA-114), 285 Westwind Drive, Newport News, VA 23602-4447

Contributions are a bit thin this month and the files here are about empty, so this column will wind up being a listing of some esoteric frequencies.

You'll recall that several months ago we presented some information from a listing compiled by Bob Parnass' list as published in The Radio Enthusiast and submitted by Bill Mauldin.

This month, we have a group of frequencies licensed to various organizations throughout the country. In almost every case, an information or updates on frequencies are eagerly sought.

American Balloon Svc	123.3000	KN7685	
	123.5000	KN7685	
American Bicycle Assn	154.6000	KB29116	lo pwr
American Junior Golf...	151.6250	KA69423	itinrnt
American Quarter Horse...	151.6250	KNAW827	itinrnt
Auto Race Promotions	154.5700	KA52803	lo pwr
Auto Sport	469.5000	KB68174	mobile
Balloon Adventure	151.6250	KA89677	itinrnt
Balloon Adventures	123.3000	KD9559	
	123.5000	KD9559	
Balloon Depot Inc	151.6250	KB28682	itinrnt
	464.5500	KB87546	itinrnt
Balloon Media Ltd	151.6250	KA79512	itinrnt
Balloon Promotions Ltd	123.3000	KU6011	
Balloonatics Inc	151.6250	KB20846	itinrnt
Balloons Aloft	123.3000	WNQ5	
	123.5000	WNQ5	
Coy Piercey's Aerial..., sports?	464.5500	KA80471	itinrnt
Flights in Fantasy	464.5000	KA70126	itinrnt
	464.5500	KA70126	itinrnt
Goodyear Blimp, ACSB mode	151.6125	KB79376	
	151.6725	call?	
Goodyear Blimp	151.6250	KC8186	itinrnt
	132.0000	WQP6	

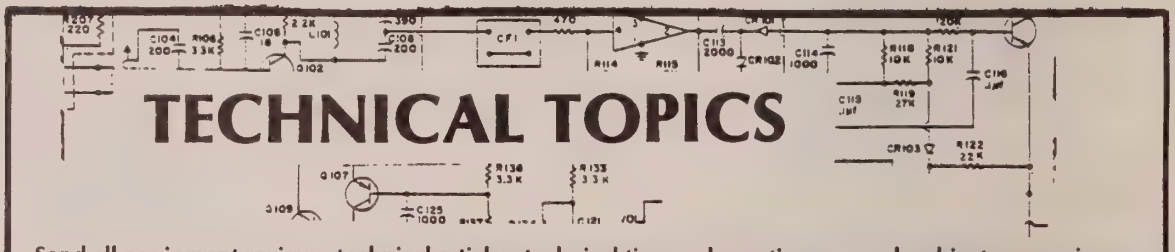
SPORTS COMMUNICATIONS continued

Gymnastic Federation	464.5000	KA51269	itinrnt
Holiday on Ice, wireless mike	171.9000	call?	
	180.1000	call?	
Hot Air Corps, balloons,	123.3000	KX7651	
	123.5000	KX7651	
Hot Air Hang Ups, balloons	151.6250	KA62685	itinrnt
Hot Air Inc, balloons	151.6250	KJ5265	itinrnt
International Tennis	464.5000	KB74798	itinrnt
Iowa Parachute Team	464.5500	KB70166	itinrnt
National Hot Rod Assn	154.6000	KB51391	lo pwr
	151.6250	call?	itinrnt
	154.5700	call?	lo pwr
National Mud Boggers, sports?	464.5000	KB53098	itinrnt
	464.5500	KB53098	itinrnt
National Offroad Vehicle...	151.6250	KA61162	itinrnt
	151.9250	KA61162	
National Rifle Assn	467.6000	KAC3246	mobile
Olympic Torch Relay	464.5000	KB77943	itinrnt
	464.5500	KB77943	itinrnt
	469.5000	KB77943	mobile
Rodeo America Inc	464.5000	KB54275	itinrnt
	464.5500	KB54275	itinrnt Womens
Professional Golf Tour	464.5000	KA47606	itinrnt
Womens Trans National	469.5000	KB53525	mobile

You're reading this in February and I would like to start thinking about outdoor sports, now that winter is hopefully on its way about. How about taking a moment and sending along any unpublished frequencies you have for auto racing tracks, baseball teams, golf courses, etc.

Tentatively, you'll get a listing of auto racing tracks and sanctioning bodies in March, baseball teams and stadiums in April and other outdoor sports activities in May.

Mail is great. I can also be contacted on the ANARC BBS, the ODDX BBS in Virginia (804-930-9563) and on Compuserve, where my ID is 71041,314.



TECHNICAL TOPICS

Send all equipment reviews, technical articles, technical tips, and questions on such subjects as receivers, antennas, preamps, accessory equipment, repeaters, links, tones, scramblers, non-voice data transmissions to:

Alexander Woollcott (GA-080), 102 Lacey Lane, Winder, GA 30680

Happy New Year to all RCMA members from the Technical Topics column. I am one month deliquent in providing a summary of the 1989 Technical Topic columns, so most of this month's column will be devoted to that purpose:

January

-- perspectives on the future of the industry for communications radio equipment
-- some suggestions to improve current technology:
   a challenge to manufacturers to develop an affordable communications radio that is both sensitive and free from disruptive interference
-- guidelines for 1990 Technical Topics columns
-- follow-up comments on communications antenna test results
-- strong endorsement for Channel Master 5094
-- test results on coaxial cable performance
-- S-Meter conversion table to Microvolts
-- requests for information on interference-reducing devices and sensitivity enhancing devices
-- problems with Radio Shack model CTR-75 recorder modification
-- legality of "walkie-talkie" repeater

February

-- general technical advice to consumers of radio communication gear
-- receiver specifications Part I: sensitivity
-- detailed discussion of sensitivity specification, what it means and what it does not mean and how manufacturers "cheat" on their reporting of sensitivity specification

March

-- receiver specifications Part II: sensitivity
-- enhancing receiver sensitivity through the use of preamplifiers
-- the trade-off among high preamplifier gain, preamplifier noise figure and preamplifier band width
-- emphasis on the most important specification for a preamplifier: the noise figure
-- endorsement of Hamtronics preamplifiers

April

-- discussion of CTCSS (continuous-tone-coded-squelch systems)
-- reader response to requests for information on preamplifiers
-- effective solution to severe intermodulation interference is to use directional antenna located indoors or outdoors
-- reader endorsement of Grove Power ANT-3 preamplifier
-- formula for constructing improved, low-band extender for discone antennas
-- warning about using high loss coaxial cables such as RG-58
-- suggestion that ideal indoor antenna would be discone or small directional antenna installed in closet

May

-- detailed antenna test results run by RCMA member testing: ICOM discone, creative design log periodic array, Dressler ARA-900 active antenna and Radio Shack triband omni directional antenna
-- discussion of advantages and disadvantages of "active antennas" such as the Dressler ARA-900
-- endorsement for Radio Shack FM broadcast band filter
-- proposed discussion for "tape swap"

June

-- how to find the Channel Master model 5094
-- general advice to new RCMA member as to getting involved in the hobby
-- difficulty in obtaining objective analysis and reviews of products and publications related to communications monitoring

July

-- publishing of the 1990 Technical Topics survey

August

-- generally strong member endorsement for the Dressler ARA-900 active antenna
-- comments on Radio Shack Pro-2005
-- comparison of Radio Shack Pro-2005 with Pro-2004
-- comments on new ICOM R-9000

September

-- member contribution of construction of all band scanner antenna for $25.00

October

-- results of Technical Topics questionnaire Part I

November

-- low-band skip reception in Minnesota of possible Georgia frequencies
-- "tape swap" idea to be transferred to Curtis Harbin, New Products Editor
-- tips for improving communications radio reception for apartment dwellers
-- recommendation for obtaining high quality surge protector

December

-- holiday gift ideas for the communications radio hobbyist
-- requests for information from member as to defect in Bearcat 100XLT
-- request from member as to improving sensitivity of Radio Shack Pro-2004
-- request for information from members as to EEB (Electronic Equipment Bank) upgrade package for ICOM R-7000

RCMA NEW MEMBERS LIST

Please Note: New members who leave blank the `permission to print full name and address' section of the RCMA membership application form will see only their first name in the above list. This is true also for new members whose request for membership was not via an application form. RCMA will publish a member's name only if we have written permission on file.—Editor

AZ 105 - STEVE RUTHERFORD;81 A S GARDEN AVE;SIERRA VISTA;AZ;85635
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CALA803 - C --LAST NAME AND ADDRESS WITHELD BY REQUEST
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CALA805 - WILLIAM HEIN;P O BOX 3628;CULVER CITY;CA;90231-3628
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MA 235 - RICHARD AMIRAULT;P O BOX 469;MALDEN;MA;02148
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NJ 307 - TONY --LAST NAME AND ADDRESS WITHELD BY REQUEST
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OR 100 - JERI & ALAN --LAST NAME AND ADDRESS WITHELD BY REQUEST
OR 101 - CATHIE WEISENBACH;1218 NW CONNELL;HILLSBORO;OR;97124
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TX  259 - BRIAN HILL;3800 CROSSLANDS RD #511;FORT WORTH;TX;76109
TX  260 - CLAUDE FRISTOE;BOX 313;IDALOU;TX;79329
VA  166 - RALPH SMITH;2244 STAPLES MILL RD #4;RICHMOND;VA;23230
VA  167 - WAYNE HESS;RT 1 BOX 1095;WHITE STONE;VA;22578
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WA  108 - PAUL EDWARDS;3815 NE 4TH #F215;RENTON;WA;98056
WI  117 - GREG DILTZ;P O BOX 44;SISTER BAY;WI;54234
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Want to Get Your Newsletter 1st Class?

Getting your RCMA Newsletter mailed 1st class may be your answer if you have consistently slow or erratic service with 3rd class mailing. 1st class costs a lot more—that's why we use 3rd to begin with—but if you can spend the greater amount, here's how:

Check your mailing label for the number of months left on your current membership. (If it says 10/90, for example and you are reading this in January, then there are 9 months remaining.) Multiply the number of months by the amount of 88 cents. Make out a check or M.O. for that amount to RCMA, Inc. Send to: RCMA General Manager, P. O. Box 542, Silverado, CA 92676. Mail with enough time to allow delivery *before* the end of the month.

BOOK REVIEW

GOVERNMENT RADIO SYSTEMS

By Robert Kelty of Mobile Radio Resources
A review by Bill Mauldin, RCMA General Editor

The GOVERNMENT RADIO SYSTEMS, Sixth Edition, by Robert Kelty arrived this week for review. The book has always been impressive in past editions, so I was looking forward to reviewing this new edition even before the package was opened.

This Sixth Edition is a BIG, impressive volume of 448 pages. The book is devoted to covering in great detail everything about the city, county and state frequencies used throughout the State of California. The California counties and cities are all there, from Alamedia to Yuba. This detailed coverage takes up 326 pages, and gives the reader detailed information about each system including repeater sites, tones, assignments and other useful and interesting facts.

The State of California is covered starting on page 334. Each state agency from the Attorney General to Youth Correction is covered in detail and completely. I can't possibly imagine living or visiting California without a copy of this book to aid in the hobby of monitoring. I especially enjoyed the detailed coverage of the California Highway Patrol, the Los Angeles Police and Sheriff, San Diego, and the San Francisco Bay area. The CHP listing for these complicated areas makes listening a true pleasure. Past editions of this book have also carried federal listings, but there was no room left in the Sixth Edition. It is truly packed with California data!

Robert Kelty is also offering the information in this publication to computer users. The data in ASCII format is available for $50. The Sixth Edition of Kelty's Government Radio Systems – California is available for $27.50 at many dealers in California. If you would like to order a copy by mail, send a stamped, self–addressed envelope to Mobile Radio Resources, 2661 Carol Drive, San Jose, CA 95125 for prices and related shipping information. You can't go wrong when you by a book by Robert Kelty!

We at RCMA would like to thank Bob for his past support of RCMA, and for making his publications available for review in the RCMA Newsletter. We know that Bob has several future books planned, and we are looking forward to reviewing each upon release. We are also pleased to see that the data is also offered on disk for those who wish to keep up with things by computer. This is a fine publication and it will be rewarding reading to anyone in the hobby. The Sixth Edition certainly sets a standard for others to follow!

The RCMA Board of Directors supports the policy of not printing certain federal law enforcement frequencies, e.g., Secret Service, FBI, Customs, DEA. Agreement with this policy has been reinforced by a membership survey.

The Radio Communications Monitoring Association is a radio club for persons interested in listening to two-way communications. RCMA was founded in May 1975 and is a Full Member of the Association of North American Radio Clubs (ANARC).

The goals of RCMA are:

1) To provide a fraternity for those who seriously pursue the hobby of monitor radio listening.
2) To try to be knowledgeable about two-way radio systems and operations.
3) To promote an understanding of the legal and ethical uses of monitor receivers.
4) To share information with and help other monitor radio listeners.
5) To try to understand and improve receivers, antenna systems and related equipment.
6) To offer suggestions and formal recommendations to manufacturers of monitor receivers and to manufacturers of other products related to the hobby.
7) To offer suggestions for and encourage the organizing and conducting of RCMA meetings and tours for groups in any geographic area.
8) To encourage and to facilitate contact between members.
9) To publish a regular club newsletter devoted to the hobby.

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